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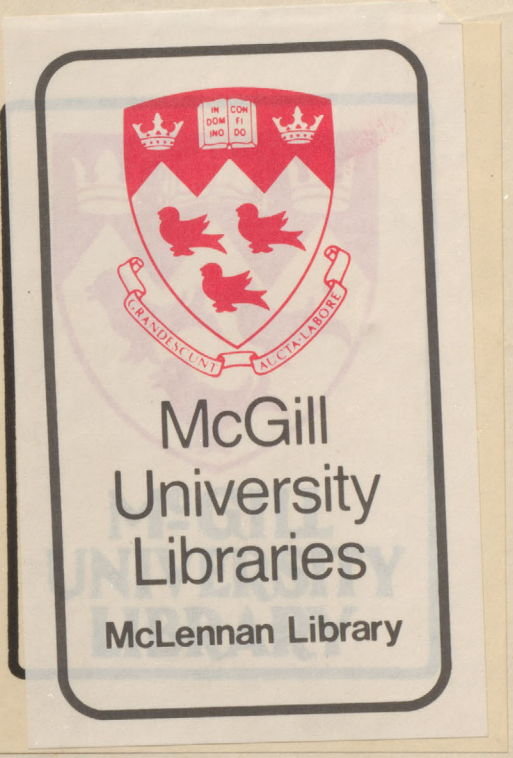

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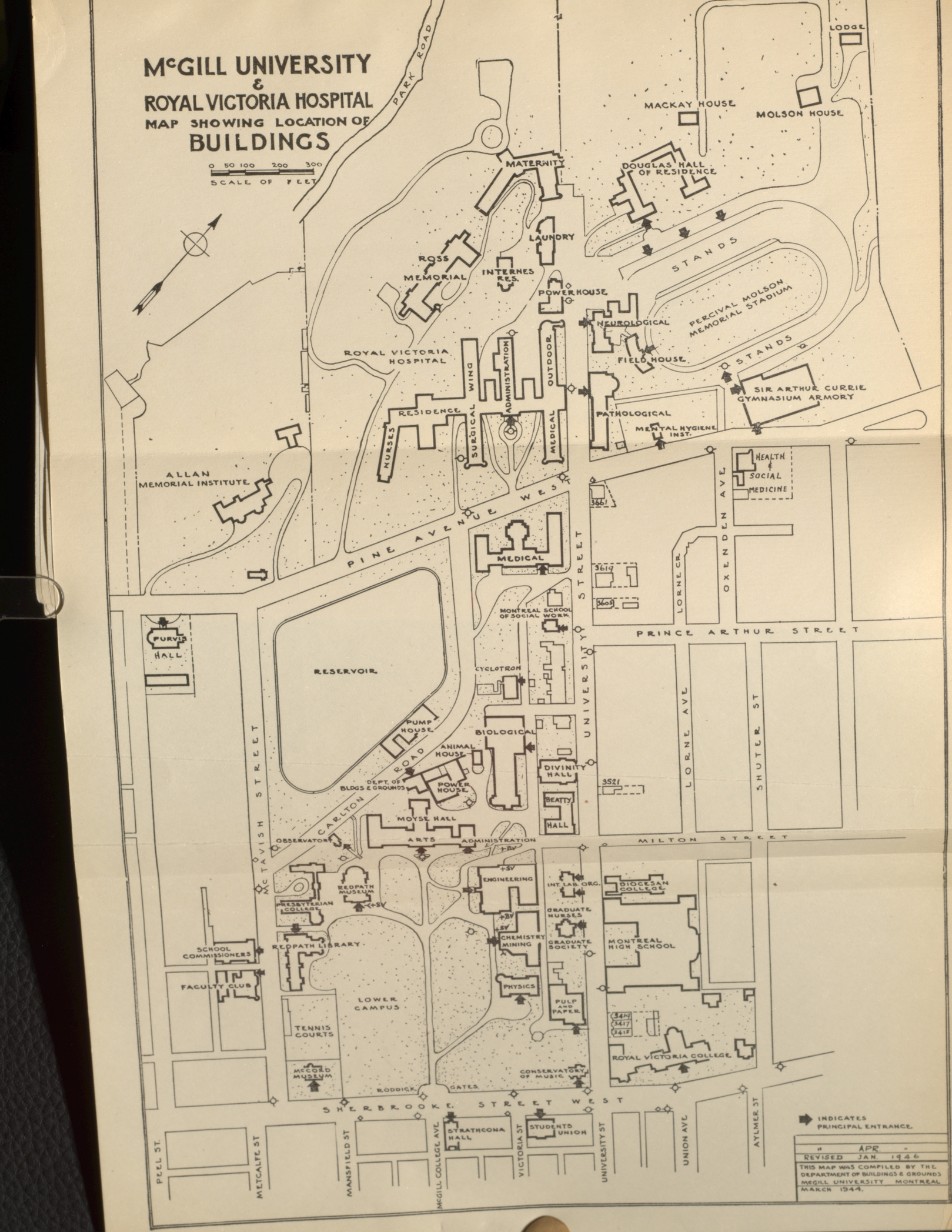

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RESEARCH FELLOWS AND RESEARCH ASSOCIATES

1947-1948

RESEARCH FELLOWS

Boris P. Babkin, M.D. (St. Petersburg), D.Sc. (Lond.), LL.D., F.R.S.C.
Research Fellow in Physiology

Catherine F. C. Macpherson, B.Sc. (Mount Allison), M.Sc. (Dalhousie)
Research Fellow in Bacteriology

Hector Mortimer, M.B., Ch.B. (Aberdeen), F.R.C.S. (Ed.)
Research Fellow in Medicine

RESEARCH ASSOCIATES

J. Ralph Jamieson, Ph.D.
Research Associate in Biochemistry

Louis Johnson, B.Sc., M.D., C.M.
Research Associate in Medicine

Frances L. Selye, M.D., C.M.
Research Associate in Medicine

UNIVERSITY SCHOLARS 1947-48

With dates of first award

Arts and Science

Leila Auerbach 1947
Anne Beusch 1946
Rosalind Cohen 1945
Heidi Eartly 1944
Burril B. Fine 1945
Hugh Hamilton 1945
Llewellyn W. Jensen 1947
Arthur Kerman 1946
Bernard Lerman 1947
Mark C. Levine 1946
Arthur Leznoff 1947
Judith Lipshitz 1945
Perry Meyer 1945
John C. Osler 1947
Donald D. Patterson 1944
Neysa Rosen 1947
Peter D. Scott 1945
Nathan Stolow 1947
Allan K. Wiebe 1947
David H. Wood 1946

Engineering

Richard J. Blanchfield 1945
Jack Bodtker 1947
Jacques Bonneville 1947
Jack Bordan 1947
Robert B. Borts 1945
Howard Chamberlain 1946
Donald F. Coates 1943
Douglas Cohoon 1946
Boris Gardavsky 1947
Nicholas Grecco 1947
John W. Harper 1947
Granville Johnston 1945
Kimball J. Keeping 1946
Alan G. Kendall 1940
Walter Kruchowski 1947
Ronald Leonard 1947
Douglas B. Lyons 1947
John O. McCutcheon 1947
John G. Melvin 1947
Ernest Morton 1947
Robert J. Norton 1947
Louis Orbane 1947
David W. Peat 1947
David A. Selby 1946
Dennis W. Stairs 1942
Charles R. Tod 1947
A. Harvie D. Walford 1946
Leonidas Zarifi 1947

Medicine

Eva Arendt 1946
James H. Darragh 1941
Emmanuel Ghent 1947
David H. Hubel 1943
John S. Meyer 1946
Mary J. Mitham 1944
Louis Rakita 1946
David Rosen 1942
Sydney Shaner 1947

Architecture

John M. Petrucci 1946

Law

Ross T. Clarkson 1947
Joan Gilchrist 1947
Alexander Graydon 1947
Joseph R. Hoffman 1947
Gerald E. LeDain 1947

A BRIEF HISTORY OF THE UNIVERSITY

In 1813 the Hon. James McGill, a leading merchant and prominent citizen of Montreal, died and left in his will a property of forty-six acres and a sum of £10,000 to the already existing Royal Institution for the Advancement of Learning upon condition that the latter erected "upon the said tract or parcel of land, an University or College, for the purposes of education and the advancement of learning in this Province"; and further upon condition that "one of the Colleges to be comprised in the said University shall be named and perpetually be known and distinguished by the appellation of 'McGill College'."

Owing to a lack of funds and persistent opposition the complete University, which had been planned by the Royal Institution, was not built, but after years of litigation and effort, the University of McGill College was opened in 1829 with what remained of James McGill's legacy as its endowment; and teaching then started in the Faculties of Medicine and Arts. The Medical Faculty grew steadily, but the Faculty of Arts had a most delicate infancy, and by the middle of the century was still scarcely alive. In 1852 an amended Charter was secured and a new era of progress and success began with the appointment in 1855 of Sir William Dawson as Principal, a position which he held for thirty-eight years.

Since 1855 the University has grown vigorously, dividing itself into further faculties. In 1899 the Royal Victoria College was opened, a gift of Baron Strathcona, to provide separate teaching and residential facilities for women students. Gradually, however, classes for men and women were merged, and now the University is almost completely coeducational. In 1907 Macdonald College was established at Ste. Anne de Bellevue, as a residential college for Agriculture, Household Science, and the School for Teachers. This general development was greatly facilitated by the generosity of Sir William Macdonald, whose gifts to the University included a Physics Building, a Chemistry and Mining Building, and a new Engineering Building, in addition to the college named after him.

Dawson College was opened in 1945 at St. Johns, Quebec, providing teaching and residence for the great number of ex-service students, and others, who have come to McGill. Other residences for men, operated by the University, comprise Douglas Hall, Wilson Hall, and Peterson Residence, while Strathcona Hall, MacLennan Hall, and A.N.A. House provide additional living accommodation for women students. All these are in the Montreal district. The Second World War also saw extensive additions to the University's classroom, laboratory, and research facilities.

A history of the University, "McGill and Its Story," by Professor Cyrus Macmillan, is published by the Oxford University Press, Toronto.

GOVERNMENT OF THE UNIVERSITY

McGill University is a Corporation created by a Royal Charter granted by the Crown of the United Kingdom, a general supervisory power being retained by the Crown and exercised through the Governor-General as *Visitor*.

The *Governors* of the University constitute the Royal Institution for the Advancement of Learning, a corporation existing under the laws of the Province of Quebec, part of the official organization of the Province, but completely self-governing. In them is vested the management of finances, the appointment of professors, and other important duties. Three of the Governors are elected by the members of the Graduates' Society and other appointments are made by the nomination of the remaining members with the approval of the Visitor. The President of the Board of Governors is, *ex officio*, *Chancellor* of the University.

The *Principal* is the academic head and chief administrative officer. He is appointed by the Board of Governors (of which body he is a member). He also holds the office of Vice-Chancellor of the University.

The *Senate* consists of the Chancellor, the Principal, the Deans of the Faculties, the Warden of the Royal Victoria College, the Director of the School for Teachers, and the four Group Chairmen of the Faculty of Arts and Science, all *ex officio;* five Governors elected by the Board, and eight professors elected by the various faculties. The Principal is Chairman of Senate which is the highest academic authority of the University and has control over admission, courses of study, discipline and degrees.

The carrying out of the regulations of Senate along with primary responsibility for the conduct of the educational work of the University, is entrusted to the several Faculties and Schools.

INCORPORATED AND AFFILIATED COLLEGES

INCORPORATED COLLEGES

Macdonald College is situated at Ste. Anne de Bellevue, about twenty-five miles from Montreal. It consists of the Faculty of Agriculture, the School of Household Science, and the School for Teachers. All courses leading to the Bachelor's and Master's degrees are under the control of the Senate of McGill University; all the short term courses in agriculture, as well as the shorter courses in domestic science are under the direction of the Faculty of Agriculture, and those for diplomas to teach in the Province of Quebec are prescribed and regulated by the Department of Education. For further particulars see separate Announcement.

The Royal Victoria College is the Women's College of McGill University. For further particulars, see pages 206 to 209.

Sir William Dawson College, situated at St. Johns, Quebec, about twenty-five miles from Montreal, was opened in October 1945 to help in taking care of the great number of returned men coming to the University. It was formerly an R.C.A.F. station and is excellently equipped with classrooms and laboratories, living quarters, and recreation halls, and has accommodation for about 1700 students. It houses all the students in First Year Engineering, about one-third of those in Second Year Engineering, and all men students in the First and Second Years of the Science course, except a few who are taking Honours work in certain subjects. (*For further particulars, see General Information pamphlet, page 202.*)

AFFILIATED THEOLOGICAL COLLEGES

The Theological Colleges named below are affiliated to the University under the following arrangements:—Students in these institutions, who are pursuing a double course in Arts and Theology (six years at least), are exempted from a half course in Arts and Science in each of the Third and Fourth Years or a whole course in either.

The United Theological College of Montreal. — Principal, Rev. George G. D. Kilpatrick, B.A., D.D., 3506 University Street.

The Montreal Diocesan Theological College.—Principal, Rev. W. A. Ferguson, M.A., B.D., 3473 University Street.

The Presbyterian College of Montreal. — Acting Principal, Rev. Robert Lennox, M.A., Th.B., 3485 McTavish Street.

For Calendars and all necessary information, apply to the Principals of the Colleges.

AFFILIATION WITH OTHER UNIVERSITIES

Under certain conditions students of McGill University may be granted advanced standing in the Universities of Oxford, Cambridge, and Dublin. Particulars of these conditions may be obtained from the Registrar.

McGILL UNIVERSITY

MONTREAL, CANADA

GENERAL INFORMATION
1947 - 1948

ADMISSION TO THE UNIVERSITY

Entrance Requirements

The Entrance requirements of the various faculties and schools of the University are given in the General Announcement, and in the separate announcements of these faculties and schools. These announcements may be obtained from the Registrar's Office.

Special Entrance Requirements for Ex-Service Men and Women

Ex-Service men and women should write to the Registrar's Office for information on the special entrance requirements that apply to them. When writing they should give details, as full as possible, of previous training and future academic ambitions.

Application Forms

Application forms for admission to the faculties of Arts and Science (including the School of Commerce), Engineering, Medicine, and Dentistry may be obtained from the Registrar's Office. Applications for admission to other faculties and schools should be made to the deans of the faculties or the directors of the schools concerned. All application forms give details of the certificates and records applicants must submit.

Admission to the University

The admissions policy of the University is definitely selective and no guarantee can be given that a student who has complied with the minimum entrance requirements will be admitted. Students, therefore, should never come to the University until they have received an official acceptance of their applications.

Inquiries

The Registrar will be pleased to answer inquiries concerning the University and to give advice to anyone who contemplates applying for admission.

DAWSON COLLEGE

To provide accommodation for the great number of veterans who wish to study for a degree, the University in September 1945 opened Dawson College at St. Johns, Quebec, about twenty-five miles from Montreal.

Rev. 26-7-47

This college which was formerly an Air Observer Station of the R.C.A.F. is well equipped with living quarters, classrooms, laboratories, dining rooms, gymnasia, lounge rooms, and a theatre.

There is accommodation for a considerable number of married veterans, and special quarters for wounded men who are not yet perfectly fit. Application for special accommodation should be made early to the Vice-Principal, Dawson College, Quebec. The college has room for about 1,500 resident students.

The following students will, after September 1947, be in residence at Dawson College:

All students (men and women) in First Year Engineering.

All students in Second Year Engineering except those for whom special arrangements were made during the 1946-47 session

All male students in the First Year of the B.Sc. course.

All male students in the Second Year of the B.Sc. course except those taking Honours in Botany or Zoology.

Exceptions:

Students may, in certain circumstances, be permitted to live in Montreal and commute to their lectures at Dawson College. Those seeking this privilege should apply to the Vice-Principal of Dawson College.

The monthly fees for Board and Residence at Dawson College are:

Single men in dormitories	$39.00
Single men or women in rooms	45.00
Man and wife in one room	70.00
Man, wife, and child in two rooms	80.00
Extra for each additional child	5.00
Health Fee for the Session (all students in residence)	3.00

These fees are subject to change without notice.

For further information, applicants should write to the office of the Vice-Principal, Dawson College, Quebec.

IMMIGRATION

All students entering Canada to attend courses at the University should obtain from the Registrar's Office an official letter of acceptance and should present this to the immigration authorities at the port of entry.

British Students

British students do not require passports to enter Canada but may require them if they wish to return, and they are therefore advised to obtain them before leaving for Canada.

American Students

American students do not need passports. They must, however, bring with them evidence of their American citizenship such as their birth certificate, baptismal certificate, naturalization certificate, or passport. They should register on arrival with the American Consulate General. Students coming from the United States of America who are not citizens of that country should carry evidence that they are legally in the United States, and prior to their return should obtain a re-entry permit from the American Immigration Department.

Other Students

All other students should carry passports.

Reference: Department of Mines and Resources, Memorandum No. 595335—Imm.

HEALTH SERVICE

The object of the student Health Service is to ensure that every student enrolled at McGill University shall be enabled to obtain the maximum protection for the development and maintenance of health at reasonable cost, during the University sessions.

The facilities of the Health Service provide for the early discovery of any defects of health and direct the student to competent treatment for any serious defect which may be found. The personnel of the Health Service have all been chosen for their ability to give competent and sympathetic service.

The Health Service provides treatment for minor illnesses or accidents.

It is not the function of the Health Service to undertake the care of serious cases beyond the initial diagnosis and emergency treatment. The patient will then be referred to the physician or surgeon of his choice or to the public service of designated hospitals.

The families of out-of-town students will be notified of any serious illness, and the action of the Health Service will be guided by their wishes or the advice of their family doctor.

Students entering the University are presumed to be in good health. If not, a statement to the contrary should be furnished to the Health Service before registration in the University is completed.

All students entering the University for the first time are required to present a certificate, or other satisfactory evidence, of successful vaccination against Smallpox. Students should be vaccinated before they come to the University. If they have not complied with this Government regulation, they will be vaccinated at the University and a fee of $5.00 will be charged. Failure to be vaccinated before a certain date in the term will involve an additional fine of $5.00.

The University is not responsible for damages of any kind resulting from accidents or athletic injuries which may occur, nor for the medical or hospital expenses incurred by any person suffering an accident or athletic injury. In the case of injuries which occur during intercollegiate or intramural competition in athletics or in preparation therefor, the Health Service will render treatment, including hospitalization, if necessary, but any hospital expense in connection therewith shall be limited to the same maximum amount and conditions as in the case of hospitalization for illness. If circumstances appear to justify such action, the Director of the Department of Physical Education may authorize additional services or contributions towards such cost.

The Student Health Service is organized to provide:

(a) Annual examinations for all men and women students in the University at the beginning of each Session. The examination includes a complete clinical check, together with an X-ray of chest and routine laboratory procedures. It is designed to provide an evaluation of the student's physical and psychological condition. Participation in athletics is conditional upon the findings. The examination is compulsory for all students and is given during a stated period of time. Announcements appear on the notice board giving the date, time and place for each student. Any student who fails to be examined during the regular period is subject to a fine of $5.00. If the student fails to report on a subsequently specified date the fine is increased to $10.00. Should he fail to report after another request, he is suspended from the University.

Re-examination during the session is undertaken for any student who may seem to require it.

(b) Consultative service for all students during regular hours throughout the week at designated locations by physicians of the Health Service. This service is optional on the part of the student. Any services obtained by the student from a private physician are the students' responsibility. The University will not pay for such services.

A limited number of visits by a physician or nurse of the Health Service for those living away from home and confined to bed will be undertaken.

A student who has received medical attention for an illness or accident must be declared fit by the Health Service before he may resume participation in classes or athletics.

(c) Payment for one half of all public ward rates in a designated general hospital up to a maximum of $125.00 per student in any one session of the University, providing that the hospitalization is requisitioned by the Health Services.

This contribution is not applicable to hospital expenses for an illness or other condition which was known or ascertained at the time of admission.

Detailed information will be furnished each student at the time of registration.

BOARD AND RESIDENCE

The University reserves the right to make changes without notice in its published schedule of tuition, board and residence, and other fees.

I. For Men

Douglas Hall of Residence

Douglas Hall was opened in September 1937. It is built on the staircase plan, each student normally having his own study-bedroom and sharing a sitting room with two other men, the three study-bedrooms and the sitting room forming a self-contained and separate suite. Meals, under the supervision of a qualified dietitian, are served in the attractive refectory and residents have in addition the use of adequate common rooms, play rooms, etc.

Normal Fees for Board and Residence:

Engineering and Architecture	$438.00
Arts, Science, Commerce, Law	478.00
Dentistry and Medicine	553.00

Due to limited accommodation, a few students will be required to share a study-bedroom, in which case a rebate of $40.00 on the normal fee will be allowed.

Wilson Memorial Hall

Wilson Memorial Hall, acquired in 1945, has accommodation for approximately seventy students, most of whom share a double room. Otherwise the facilities of dining room and common rooms are similar to those at Douglas Hall.

Normal Fees for Board and Residence:

Engineering and Architecture	$433.00
Arts, Science, Commerce and Law	468.00

Students sharing a double room will be allowed a rebate of $40.00 on the normal fee.

linen (two blankets, pillow, sheets, pillow cases, bath towels, face towels), muslin curtains, small rug, bureau, desk, bookcase, desk chair, waste-basket, and study lamp. Couch coverings and bureau scarves are not provided.

In Strathcona Hall there are 45 single rooms and 9 double rooms, with furnishings similar to the Royal Victoria College.

At McLennan Hall the rooms are large and accommodate two or three students each, except for two single rooms. The furnishings include couch beds, bedding and linen (two blankets, pillow, sheets, pillow cases, bath towels, face towels), bureaus, desks, chairs, waste-baskets, and study lamps. Couch coverings and bureau scarves are not provided

A.N.A. House, 3456 Ontario Avenue, has been taken over by the Royal Victoria College and established as a residence for undergraduate women veteran students. Most of the rooms are large and accommodate several students. The furnishings include cot beds, bedding and linen, bureaus, study tables, chairs, waste-baskets and study lamps.

Rates

The charge for board and residence in the Royal Victoria College for a student occupying a single room is $453.00 and for a student occupying a double room $428.00.

The charge for board and residence in Strathcona Hall is $403.00 for a single room and $378.00 for a double room.

The charge for board and residence at McLennan Hall is $453.00 for the single rooms and $378.00 for all others.

The charge for board and residence at A.N.A. House is $320.00.

These charges cover the period of the University session (Arts and Science) exclusive of the Christmas holiday. Students who are in residence for any additional period for purposes of instruction, practice teaching or examinations are charged at the rate of $2.00 per day at the Royal Victoria College, Strathcona Hall and McLennan Hall. Those at A.N.A. House pay $1.35 per day.

Residence Outside the College

Students not residing with their parents or guardians should apply for residence in the Royal Victoria College or Strathcona Hall or McLennan Hall or consult with the Warden with regard to living outside. A list of approved boarding houses with details of rooms, prices, etc., may be consulted at the Royal Victoria College. All women students living out of residence must obtain the Warden's written approval of their living arrangements and no student may change her lodging without the written consent of the Warden.

No sanction can be given to establishments of students in apartments or elsewhere unless such households are presided over by a parent or other responsible person approved by the Warden.

There is accommodation for meals in the cafeteria at the Royal Victoria College.

Health

The health service for both resident and non-resident students is part of the University Health Service. The Assistant Physician for the Royal Victoria College, Dr. M. Dorothea Mellor, is assisted by the resident nurse.

No student who has an infectious illness or who comes from a house in which there has been an infectious illness may enter or return to the College unless the regulations of the Provincial Department of Health are observed. In all such cases the Warden must be notified and official consent secured. All students entering the University for the first time are required according to Provincial regulations to present a certificate or other satisfactory evidence of successful vaccination within seven years, or of insusceptibility to vaccine within five years.

FEES

The University reserves the right to make changes without notice in its published schedule of tuition, board and residence, and other fees.

I. University Fees

These fees include all the regular charges of the University for tuition, health service, registration, libraries, laboratories, physical education, sports, games, and graduation. The only additional fee is the Students' Society Fee (*see page 211*).

Full-Time Regular Students

Arts	$234.00
Science	257.00
Engineering	280.00
Medicine (British students)	378.00
Medicine (Non-British students)	478.00
Dentistry (British students)	329.00
Dentistry (Non-British students)	369.00
Law	255.00
Music	227.00
Library School	267.00
Commerce	253.00
Graduate Faculty	147.00 or 167.00*
School of Physical Education (Degree Course)	262.00
School for Graduate Nurses (Diploma Course)	187.00
School for Graduate Nurses (Degree Course)	232.00
Physiotherapy	252.00
High School Diploma Course	147.00

*The higher fee if laboratory courses are taken. Students in Chemistry are charged a Caution Levy of $7.00.

CONDITIONED STUDENTS

Special fee for an additional course repeated or substituted by Conditioned Students (one full course or two half courses).. $10.00

LIMITED UNDERGRADUATES IN THE FACULTY OF ARTS AND SCIENCE

First and Second Years, per course..... $55.00
Other years, per course..... 65.00

PARTIAL STUDENTS

	Half Courses	Full Courses
Arts, Science and Commerce, per course.....	$30.00	$60.00
Engineering, per hour of instruction per week, per term	10.00	10.00

The maximum fee for a partial student is the full undergraduate fee.

Information concerning the fees payable by partial students taking other courses may be obtained from the Bursar's office.

Partial students pay $5.00 for Athletics and are entitled to use the outdoor facilities, tennis courts, rinks, etc. If they desire the full athletic and health service privileges of a regular student the fee payable is $22.00. Such students must be medically examined at the time of registration.

Partial students who pay the full undergraduate fee are entitled to the use of the Student Health Service and all facilities of the Department of Physical Education enjoyed by regular students.

PAYMENTS BY INSTALMENTS

Fees may be paid in two instalments, one at the beginning of the session and one on the 1st of February following. For this privilege the fee (payable $2.50 with each instalment) is..... $ 5.00

II. SPECIAL FEES AND PENALTIES

Late registration (first week) extra..... $ 5.00
Late registration (second week) extra..... 10.00
Late payment fee (after specified date)..... 2.00
Fine for late medical examination (*see page 204*).....5.00 or 10.00
Graduation *in absentia*..... 10.00
Duplicate Diploma..... 10.00
Certified copy of student's record..... 1.00
Additional copies (at same time)..... .50
Certificate of exemption from Matriculation..... 2.00
Supplemental examinations, each paper..... 10.00
Rental of microscope (*for students in Dentistry*)..... 7.50

McGill graduates and graduates of other Universities may use the University Library on payment of an annual fee of $5.00.

III. Students' Society Fees

An annual fee of $10 ($11 in Engineering) is payable by all undergraduates for the support of student organizations. Engineering students are required to make a deposit of $10.00 for the Engineering Undergraduates Book Service.

Medical students pay an additional $2.00 for the Medical Journal.

The men's fee is distributed as follows: McGill Union $3.50; McGill Daily $1.50; Students' Executive Council $4.00; Undergraduate Society $1.00.

The women's fee is distributed as follows: Women's Union $3.50: McGill Daily $1.50; Students' Executive Council $4.00; Undergraduate Society $1.00.

Fees for the use of the gymnasium, the rinks and tennis courts, and free admission to all home games of University teams are included in the University Fees given on page 209.

REGULATIONS FOR PAYMENT OF FEES

1. Fees are due and payable at the Bursar's Office immediately after registration; exact dates are shown in the announcements of the various Faculties and Schools. A late fee of $2.00 is charged for payment after the specified dates.

2. The University does not issue bills for fees. Each student is required, at the time of registration, to complete a form giving full details of his fees for the session. This form provides a detailed statement to accompany remittances sent by mail.

3. Fees may be paid in two instalments, one at the beginning of the session, and one on February 1st following. In such cases the instalment fee of $5.00 is charged.

   1st Instalment

   Divide Tuition, Board and Residence, and Instalment Fees in half. All other fees and deposits are payable in full with first instalment.

   2nd Instalment

   Balance of Tuition, Board and Residence, and Instalment Fees.

4. Domicile in general determines whether a student pays the British or the Non-British fees in Medicine and Dentistry. A student who is uncertain which rate he is required to pay should consult the Registrar.

5. Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the following paragraph:

Immediately after the prescribed dates for the payment of fees the Bursar will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant.

6. Further details concerning fees in the Faculty of Graduate Studies and Research are given in the announcement of that Faculty.

REGULATIONS CONCERNING REMISSION OF FEES TO STUDENTS WHO LEAVE THE UNIVERSITY DURING THE COURSE OF THE ACADEMIC YEAR

1. Students withdrawing from the University must cancel their registration at the Registrar's Office.
2. In the case of students who, in spite of the fact that they leave the University before the end of the academic year, receive full credit for the year towards their degree, there shall be no refund of fees.
3. In the case of students who leave during the academic year and do not receive credit beyond the period of their attendance, the fees shall be remitted on the following basis:
   (a) In those Faculties where the academic year is divided into two terms, half of the annual fees shall be remitted to a student who leaves prior to the beginning of the second term.
   (b) In those Faculties where the year is divided into three terms, one-third of the fees shall be returned for each term that begins after the departure of the student.
4. No fees shall be refunded for any term during which the student has attended classes, even though he leaves before the term has finished.
5. Board and residence fees are payable for the full academic year and shall not be refunded.
6. Students' Activities fees shall not be refunded.

EXPENSES

It will be seen that each student pays annually two fees, (1) his inclusive University fee (2) a Student's Activity fee. There are no other regular fees and the only extras are for late registration, for graduation *in absentia*, etc., as listed above. Consequently the expenses of a student may be estimated by adding these two fees and the cost of board and lodging (*see pages 205 to 209*). Books are necessarily a variable expense, but probably $30 a year would be about their average cost in Arts and Science. Personal expenditure upon clothes, amusements, etc., is still more variable and no useful estimate is possible.

PART-TIME EMPLOYMENT

Inquiries regarding placement, part-time work, or summer employment should be directed to the University Placement Service. However, students taking a regular degree course generally have insufficient leisure to make heavy part-time work during the term advisable, and they are recommended not to rely upon earning any money while actually at college.

SPORTS FOR MEN

There is intercollegiate competition in approximately twenty different sports including, football, hockey, track, basketball, skiing, swimming, boxing, wrestling, fencing, and golf, and, in addition, there is a wide programme of intra-mural competition in various sports. The Sir Arthur Currie Memorial Gymnasium provides accommodation for many indoor activities, while Mount Royal in Montreal and the Laurentian Mountains north of Montreal provide excellent skiing country. A student in good health thus has ample opportunities for exercise and pleasant recreation.

SPORTS FOR WOMEN

For women students there is a wide choice of voluntary sports and recreations including archery, basketball, dancing, gymnastics, skating, skiing, swimming and tennis. Special care is taken that no student undertakes any exercise for which she is physically unsuited.

CALENDAR FOR THE SESSION 1947-48

1947

May 28th, Wednesday. Convocation. No lectures.

May 30th, Friday. Registration of Students in Summer Session in the Faculty of Arts and Science and continuing Second Term.

June 2nd, Monday. Lectures begin in Arts and Science Summer Session and in Second Term Arts and Science and Engineering.

June 27th, Friday. French Summer School begins.

June 30th, Monday. Geography Summer School begins.

July 1st, Tuesday. Dominion Day. No lectures.

August 8th, Friday. French Summer School ends.

August 11th, Monday. Geography Summer School ends.

August 14th, Thursday. Lectures end in the Faculty of Arts and Science Summer Session.

August 18th, Monday. Examinations begin in the Arts and Science Summer Session.

September 2nd, Tuesday. Students register in all years of Medicine and Dentistry. Public Health Nurses report for field work. Summer School in Mechanical Engineering begins. Fall Survey School begins. High School Diploma students report for training in the Department of Education. Last day for filing graduate theses for Autumn Convocation.

September 3rd, Wednesday. Lectures begin in all years of Medicine and Dentistry. Seminars and field work begin for High School Diploma students. School Certificate Examinations begin.

September 8th, Monday. Second and Third Year Students in the School of Physical Education report for Autumn Outdoor School. Supplemental Examinations begin in Arts and Science, Commerce, Engineering, Architecture, and in the School of Physical Education.

September 12th, Friday. Teaching and Supervision students report for field work in the School for Graduate Nurses.

September 13th, Saturday. Last day for reports on Ph.D. theses.

September 15th, Monday. Last day for reports on Masters' theses. Special Summer School in Surveying begins. Architectural Sketching School begins. Conservatorium of Music opens for practical work.

September 16th, Tuesday to September 20th, Saturday. Final orals for Ph.D.

September 19th, Friday, and September 20th, Saturday. Students register in the Library School.

September 22nd, Monday. Lectures begin in the Library School.

September 25th, Thursday. Registration of Upper Year Students begins in Arts and Science.

September 29th, Monday. Freshman Day. Registration of First Year Students begins in Arts and Science. Registration of all years in Engineering and Architecture. Registration in the School of Social Work. Lectures begin in the Faculty of Music.

September 29th, Monday and September 30th, Tuesday. Students register in Law, the School for Graduate Nurses, the First and Fourth Years of the School of Physical Education, and the School of Physiotherapy.

September 30th, Tuesday. Lectures begin in the School of Social Work.

October 1st, Wednesday. Lectures began in Arts & Science, Commerce, Engineering, Architecture, Law, Agriculture, Household Science, Graduate Studies and Research, the School for Graduate Nurses, the School of Physiotherapy, and the School of Physical Education. Last day for receiving candidates' applications and Sessional registration forms in the Dean's Office, Faculty of Graduate Studies and Research. Last day for handing in summer essays in the Faculty of Engineering.

October 6th, Monday. Founder's Day. Convocation.
(James McGill born October 6th, 1744, died December 19th, 1813.)

**Thanksgiving Day.* No lectures.

October 18th, Saturday. Last day for submitting certificates relating to summer employment in the Faculty of Engineering.

October 25th, Saturday. Last day for registration and payment of fees in the Faculty of Graduate Studies and Research.

December 6th, Saturday to December 13th, Saturday. Examinations in French and German for Ph.D. students.

December 12th, Friday. First term ends in the Library School.

December 16th, Tuesday, to December 19th, Friday. Examinations in the Library School.

December 19th, Friday. Last day of lectures and field work in the School of Social Work.

December 20th, Saturday. Last day of lectures in all other Faculties and Schools.

1948

January 2nd, Friday. Lectures resumed in Medicine, Dentistry, Law, and Graduate Studies.

January 3rd, Saturday. First term ends in Law.

January 5th, Monday. Lectures resumed in the Library School, Music, and the School of Social Work. Second term begins in Law. First term examinations begin in Arts and Science, Engineering, Architecture, Physical Education, the School for Graduate Nurses, and Physiotherapy.

January 12th, Monday. Second term begins in Arts and Science, Commerce, Engineering, Architecture, Physical Education, the School for Graduate Nurses, and Physiotherapy.

January 28th, Wednesday, to January 30th, Friday. Examinations held in the School of Social Work.

February 2nd, Monday. Second term begins in the School of Social Work.

February 10th, Tuesday. Founder's Day at Macdonald College.
(Sir William Macdonald born February 10th, 1831, died June 9th, 1917.)

Library School trip. Dates to be announced.

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*Thanksgiving Day will be a University Holiday. The date will be proclaimed later by the Dominion Government.

March 26th, Friday, to March 29th, Monday (inclusive). Easter vacation.

April 7th, Wednesday. Lectures end in all years of Engineering and Architecture.

April 12th, Monday. Examinations begin in all years of Engineering and Architecture.

April 15th, Thursday. Last day for filing Ph.D. theses.

April 16th, Friday. Lectures end in all Faculties and Schools except Medicine, Dentistry, the Library School and Music.

April 21st, Wednesday. Examinations begin in Arts and Science, Commerce, Law, Physical Education, Agriculture, Household Science, the School for Graduate Nurses, and Physiotherapy.

April 22nd, Thursday. Last day for filing Masters' theses not involving experimental work.

April 30th, Friday. Examinations begin in the Theory of Music.

May 1st, Saturday. Lectures end in the Library School. Last day for filing Master's theses involving experimental work.

May 3rd, Monday. Practical examinations begin in Music.

May 4th, Tuesday. Examinations begin in the Library School and in Higher Theoretical Music.

May 7th, Friday. Last day of lectures in the School of Social Work.

May 8th, Saturday. Last day for reports on Ph.D. theses and for reports on graduate examinations. Lectures end in Music. Examinations begin in the School of Social Work.

May 8th, Saturday, to May 15th, Saturday. Final orals for Ph.D.

May 10th, Monday, to May 22nd, Saturday. Practice work in the Library School.

May 12th, Wednesday. Last day for reports on Masters' theses.

May 15th, Saturday. Lessons in Practical Music end at Conservatorium of Music.

May 17th, Monday. First day of full-time field work in the School of Social Work.

May 26th, Wednesday. Convocation.

June 14th, Monday. School Certificate Examinations begin.

June 26th, Saturday. Last day of full-time field work in the School of Social Work.

McGILL UNIVERSITY

MONTREAL

GENERAL ANNOUNCEMENT

1947 - 1948

The following official publications are issued by the University and may be obtained from the Registrar's Office.

Announcements of Faculties and Schools as follows:—

General Announcement

School Certificate Examinations

Scholarships, Bursaries, and Loan Funds

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Faculty of Medicine

Faculty of Engineering

Faculty of Law

Faculty of Dentistry

Faculty of Music

Faculty of Graduate Studies and Research

School of Commerce

Library School

School of Physical Education

School for Graduate Nurses

School of Physiotherapy

School of Social Work

Macdonald College

French Summer School

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ADMINISTRATIVE OFFICERS

THE UNIVERSITY

Principal and Vice-Chancellor.....F. Cyril James, Ph.D., D.C.L., LL.D., Docteur de l'Université
Comptroller and Executive Assistant to the Principal.....S. H. Dobell, D.S.O.
Bursar.....William Bentley, C.G.A.
Registrar.....T. H. Matthews, M.A.
Vice-Principal of Dawson College.....Carleton Craig, B.A., M.Eng.
Librarian.....Richard Pennington, B.A.
Warden of the Royal Victoria College...Muriel V. Roscoe, M.A., Ph.D.
Warden of Douglas Hall.....R. D. Maclennan, M.A.
Warden of Peterson Residences.....F. Kenneth Hare, B.Sc.

FACULTY OF ARTS AND SCIENCE

Dean.....A. H. S. Gillson, O.B.E., M.A.
Assistant Dean.....John Rollit, M.A., Ph.D.
Director of the School of Commerce.....H. D. Woods, M.A.

FACULTY OF MEDICINE

Dean.....Frederick Smith, M.A., M.B., B.Ch., M.R.C.S., L.R.C.P.
Secretary.....Donald Fleming, B.A., M.D., C.M., D.P.H.

FACULTY OF ENGINEERING

Dean.....J. J. O'Neill, M.Sc., Ph.D., F.R.S.C.
Secretary.....R. DeL. French, B.Sc., C.E.
Director of the School of Architecture...John Bland, B.Arch., A.R.I.B.A.

FACULTY OF DENTISTRY

Dean.....A. L. Walsh, D.D.S., F.A.C.D.

FACULTY OF MUSIC

Dean.....Douglas Clarke, M.A., Mus.B., F.R.C.M., F.R.C.O.
Vice Director and Secretary of the Conservatorium.....R. de H. Tupper

FACULTY OF LAW

Dean.....C. S. Le Mesurier, K.C., B.A., B.C.L.

Secretary.....Maxwell Cohen, B.A., LL.M.

FACULTY OF GRADUATE STUDIES AND RESEARCH

Dean.....D. L. Thomson, M.A., Ph.D., F.R.S.C.

Secretary.....John Hughes, M.A.

SCHOOL OF PHYSICAL EDUCATION

Director.....A. S. Lamb, B.P.E., M.D.

Assistant Director.....Iveagh Munro, M.S.P.E., B.Sc., M.A.

SCHOOL FOR GRADUATE NURSES

Director.....Marion Lindeburgh, O.B.E., R.N., M.A.

SCHOOL OF PHYSIOTHERAPY

Director.....Guy Fisk, B.A., M.D., C.M.

SCHOOL OF SOCIAL WORK

Director.....Dorothy King, O.B.E., M.A.

MACDONALD COLLEGE

Vice-Principal of Macdonald College and Dean of the Faculty of Agriculture.....W. H. Brittain, M.S. in Agr., Ph.D., F.R.S.C.

Dean, School for Teachers.....Sinclair Laird, M.A., B.Phil., D.Paed., LL.D.

Director, School of Household Science..Margaret S. McCready, B.A., Ph.D.

Secretary.....J. H. Holton, B.Com.

Registrar.....A. B. Walsh, B.Sc. (Agr.)

McGILL UNIVERSITY

A BRIEF DESCRIPTION

McGill University, founded under a bequest of the Hon. James McGill, a prosperous Montreal merchant who died in 1813, was established as a university by Royal Charter in 1821. It is privately endowed, the trustees of its funds being the Board of Governors who constitute "The Royal Institution for the Advancement of Learning."

The University has eight faculties and nine schools. Particulars of these are given on pages 311 to 316. Seven of the faculties are situated in Montreal where the University Campus lies on the lower slopes of Mount Royal, the hill from which the city takes its name. Macdonald College at Ste. Anne de Bellevue, about twenty-five miles from Montreal, is an incorporated College of the University, and houses the Faculty of Agriculture and the School of Household Science and the School for Teachers. Sir William Dawson College, near St. Johns, Quebec, was established in 1945 to take care of the vastly increased numbers of students attending the University. Further information about this College will be found in the pamphlet enclosed with this Announcement.

McGill University is undenominational and has now for many years been co-educational in most of its faculties and schools. Admission is definitely selective, the number of students accepted into each faculty being limited. In the 1946-47 session the number of men students studying for either degrees or diplomas was 5980 and the corresponding number of women students was 1746. These students are drawn from every province of Canada and from many other countries, the connexions with Great Britain, the West Indies, and the United States naturally being strong. At present there are in residence at the University about 32 students from Great Britain and 335 from the United States.

The following pages are intended to give in a condensed form the preliminary information that a student who contemplates entering the University would require, together with the entrance requirements of the various faculties and a list of the certificates accepted. Details of the Junior and Senior School Certificate, the entrance Examination conducted by the University, are given in the School Certificate Announcement. Separate announcements of the several faculties and schools are also published and a list of these is printed on the inside of the title page. There is also a pamphlet enclosed with this announcement which gives the fees in the various faculties and schools, a description of the University residences for men and women, an account of the Health Service, and a calendar of dates. The Registrar's Office will be pleased to send one or more of these announcements to anyone interested or to answer inquiries.

VETERANS' AFFAIRS

Special Adviser to Veterans.....E. Clifford Knowles, M.A., B.D.

Entrance Requirements

The Admissions Committees of the various faculties are anxious to allow returned men and women to try any course for which they have sufficient aptitude and sufficient preliminary training. The committees are therefore willing to consider applications from returned men and women who have approximately the following minimum qualifications:

For the First Year of Arts or Commerce: Good Junior Matriculation standing in English, Elementary Mathematics (Algebra and Geometry), a Modern or Classical Language, and one other subject.

For the First Year of Science: Physics and Chemistry may replace the Modern or Classical Language in the above list.

For the First Year of Engineering: Senior Matriculation standing in English, Mathematics (Algebra, Trigonometry, Co-ordinate Geometry), Physics, and Chemistry.

Students wishing to enter other faculties or years should write for information to the Registrar's Office.

D.V.A. Benefits

For details of the Educational grants offered by the Department of Veterans' Affairs, see the General Information Pamphlet enclosed with this Announcement.

Advice

Veterans who have any problems are recommended to consult Mr. E. Clifford Knowles, the special adviser for veterans at the University.

Mr. Knowles visits Dawson College and Macdonald College regularly, and appointments to see him may be made at the administration offices.

THE FACULTIES AND SCHOOLS OF THE UNIVERSITY

A Brief Outline With References

Announcements of these faculties and schools giving further details may be obtained from the Registrar's Office.

For fees see the Pamphlet of General Information enclosed with this announcement.

I. McGILL COLLEGE

Faculty of Arts and Science

See also page 316.

Degrees Offered: Bachelor of Arts (B.A.)
Bachelor of Science (B.Sc.)
Bachelor of Commerce (B. Com.)

Period of Resident Study in the Faculty: Four years from Junior Matriculation or three years from Senior Matriculation (see School Certificate Announcement).

Minimum Entrance Requirements: Junior Matriculation for admission to the First Year. Junior and Senior Matriculation with second-class standing for admission to the Second Year. For certificates recognized by the University see pages 323, 324. The entrance requirements for students of American Schools and for students from Great Britain are stated on page 324.

Application Forms: For application forms apply to the Registrar's Office.

Since the majority of students coming to the University for the first time enter the Faculty of Arts and Science, further details of this Faculty are given on page 316.

II. FACULTY OF MEDICINE

Degree offered: Doctor of Medicine and Master of Surgery (M.D., C.M.).

Diplomas offered: The Diploma of Public Health (D.P.H.), the Diploma of Tropical Medicine (D.T.M.), and diplomas for advanced study in the various clinical departments of the Faculty.

Period of Study in the Faculty for the Degree: Four years.

Licence to Practise: An interne year or a further year of study is required before the University certifies that a graduate is entitled to take the qualifying examination of any of the licensing boards, so that the length of the full professional course is five years.

Entrance Qualifications: At least three years of university work are required and a complete B.A. or B.Sc. degree is preferred. This pre-medical work must include:—

Physics: One year of general college physics with laboratory work.

Biology: One year of general biology and zoology with laboratory work. (One year of Zoology will be accepted, but Botany alone is not sufficient.)

Chemistry: Two years.

(*a*) One full year's course of general chemistry with laboratory work.

(*b*) One full year's course of organic chemistry with laboratory work.

Students who are preparing for entrance to the Faculty of Medicine are advised that they should not choose subjects which properly belong to the medical course, but should devote their time to securing a thorough preparation in the fundamental scientific and humanistic subjects.

Students are strongly advised to make themselves familiar with the licensing regulations of the province or state in which they intend to practise and to take the necessary steps to become registered. The University requires Canadian students to register with the licensing body of their province before beginning their medical course.

Since the University can accept only a small percentage of those who apply, applications should be made to the Secretary of the Faculty of Medicine as early as possible and in no case after March 1st.

For further details and application forms apply to the Secretary of the Faculty.

III. FACULTY OF LAW

The course in the Faculty of Law is based mainly on the study of the Roman and Civil systems, the curriculum and timetable being arranged on the assumption that a student is devoting his entire time to his university work.

Degree offered: Bachelor of Civil Law (B.C.L.).

Period of Study in the Faculty of Law: Four years.

Entrance Qualifications: Candidates who have completed at least two years in the Faculty of Arts and Science at McGill University will be admitted to the Faculty as degree students without examination. Other candidates must satisfy the Faculty that they possess an equivalent qualification. Civilian candidates, however, who are proceeding to the Bar of the Province of Quebec must be British subjects, hold the degree of B.A. from a Canadian or British university, and satisfy the Bar examiners that they have successfully completed "the regular course in philosophy" in an approved university. Veterans should consult the Faculty concerning special regulations that apply to them.

Candidates for admission to the Notarial profession must be male British subjects and hold the degree of B.A., B.Litt., or B.Sc. from a Canadian, English or French university. A knowledge of the French language is also required.

Further information regarding admission to practice will be found in the Quebec Bar Act, 1925, R.S.Q., chap. 210 (as amended) and the Notarial Code, 1925, R.S.Q., chap. 211 (as amended).

IV. FACULTY OF ENGINEERING

Degrees offered: (1) Bachelor of Engineering (B.Eng.), in the Departments of Chemical, Civil, Electrical, Mechanical, Metallurgical, and Mining Engineering, and in Engineering Physics. (2) Bachelor of Architecture (*See below*).

Period of Study in the Faculty: Four years.

Entrance Qualifications: Successful completion of First Year Arts and Science (B.Sc. course), *or* Senior Matriculation in English, Mathematics (three papers: Algebra, Trigonometry, and Co-ordinate Geometry), Chemistry, Physics, and one of Biology, French, German, Greek, History, Latin, Spanish. Students should not contemplate entering the Faculty of Engineering unless they have more than average mathematical ability. The minimum requirements in this subject are stated in the School Certificate Announcement. For further details see the Announcement of the Faculty of Engineering.

V. SCHOOL OF ARCHITECTURE

In the Faculty of Engineering

Degree offered: Bachelor of Architecture (B.Arch.).

Period of Study in the School: Five years.

The entrance requirements in Architecture are the same as those for the Engineering courses (*see above*). The length of the course is five years, the First Year being identical with the First Year in Engineering.

VI. FACULTY OF DENTISTRY

Degree offered: Doctor of Dental Surgery (D.D.S.).

Period of Study in the Faculty for the Degree: Four years.

Entrance Qualifications: At least two years in Arts and Science, including two years of lectures and laboratory work in Chemistry (inorganic and organic), and one year each of Physics and Biology.

To be qualified to practise in the Province of Quebec, a student must take at least the last year of this pre-dental work in a recognized English university in that Province.

VII. FACULTY OF AGRICULTURE

This faculty is housed in Macdonald College at Ste. Anne de Bellevue twenty-five miles from Montreal.

Degree offered: Bachelor of Science in Agriculture, B.Sc. (Agr.).

Period of Study in the Faculty for the Degree: Four years.

For entrance qualifications, fees, and further details, see the Announcement of Macdonald College, which may be obtained from the Registrar, Macdonald College, P.Q.

VIII. FACULTY OF MUSIC

Degree offered: Bachelor of Music (Mus.B.).
Diplomas offered: Licentiate in Music (L. Mus.).
Associate in Music (A. Mus.).
Minimum period of study in the Faculty for the Degree: Three years.
For further details see the Announcement of the Faculty of Music.

IX. FACULTY OF GRADUATE STUDIES AND RESEARCH

Degrees offered: Master of Arts (M.A.), Master of Science (M.Sc.), Master of Engineering (M.Eng.), Master of Commerce (M. Com.), Master of Civil Law (M.C.L.), Master of Social Work (M.S.W.), Doctor of Philosophy (Ph.D.), Doctor of Civil Law (D.C.L.), Doctor of Music (Mus.D.).

For details consult the Announcement of the Faculty of Graduate Studies and Research.

X. SCHOOL OF HOUSEHOLD SCIENCE

In the Faculty of Agriculture

(Women Only)

Degree offered: Bachelor of Science in Home Economics [B.Sc.(H.Ec.)].
Diplomas offered: See Macdonald College Announcement.
Period of Study for the degree: Four years.
Yearly fee for residents of Canada..... $133.00
" " for non-residents..... $158.00

For entrance requirements and other details see the Announcement of Macdonald College which may be obtained from the Registrar, Macdonald College, P.Q.

XI. THE LIBRARY SCHOOL

In the Faculty of Arts and Science

Degree offered: Bachelor of Library Science (B.L.S.).
Period of Study: One year.
Entrance Qualifications: Bachelor's Degree.
For details see the Announcement of the Library School.

XII. SCHOOL OF PHYSICAL EDUCATION

In the Faculty of Medicine

Period of Study: Four years in the School leading to the degree of B.Sc. (Phys. Ed.)

Entrance Requirements: Junior Matriculation.
For further particulars see the Announcement of the School.

XIII. SCHOOL FOR GRADUATE NURSES

IN THE FACULTY OF MEDICINE

(Women Only)

CERTIFICATE COURSES

One-year certificate courses offered in:

1. Teaching and Supervision in Schools of Nursing.
2. Public Health Nursing.
3. Supervision in Psychiatric Nursing.
4. Supervision in Obstetrical Nursing.

Advanced Courses

5. Administration in Schools of Nursing.
6. Administration and Supervision in Public Health Nursing.

Entrance Requirements: Junior Matriculation or its equivalent, and graduation from an approved school of nursing.

For the advanced courses satisfactory professional experience is required.

DEGREE COURSES

Two-year courses leading to a degree of Bachelor of Nursing (B.N.), with specialization in the following fields:

Teaching and Supervision in Schools of Nursing, Public Health Nursing, Psychiatric Nursing, Administration in Hospitals and Schools of Nursing, Administration and Supervision in Public Health Nursing.

Entrance Requirements: Senior Matriculation or its equivalent, and graduation from an approved school of nursing.

For the courses in Administration, satisfactory professional experience is required.

For details see the Announcement of the School.

XIV. SCHOOL OF SOCIAL WORK

A one-year course leading to the degree of Bachelor of Social Work (B.S.W.) with a further year which may lead to the degree of Master of Social Work (M.S.W.)

Entrance Requirements: A Bachelor's degree from a recognized college with adequate training in the necessary social sciences.

For details see the separate Announcement of the School.

XV. SCHOOL OF PHYSIOTHERAPY

IN THE FACULTY OF MEDICINE

(Women Only)

Period of Study: Three years in the School leading to a diploma.

Entrance Requirements: Senior Matriculation or its equivalent.

For further particulars see the separate Announcement of the School.

XVI. FRENCH SUMMER SCHOOL

In the Faculty of Arts and Science

A residential summer school with an Old-Country French staff. Approximate dates 27th June to 8th August.

Inclusive Fee: $200.00.

For special Announcement apply to the Director, French Summer School, Arts Building, McGill University, or to the Registrar's Office.

XVII. TRAINING OF TEACHERS

The Department of Education offers a one-year course to graduates of approved universities who wish to be teachers. Under certain conditions those who complete this course may qualify for the High School Diploma of the Province of Quebec. These conditions are given in the Announcement of the Faculty of Arts and Science. This course under certain conditions (see Announcement of the Faculty of Graduate Studies and Research) may lead later to an M.A. degree in Education.

For details of courses in the School for Teachers, leading to Elementary and Intermediate Diplomas, see the Macdonald College Announcement.

APPLICATION FOR ADMISSION TO ALL FACULTIES

Application forms for all years in the Faculty of Arts and Science, and for the First Year in Engineering, Medicine, and Dentistry may be obtained from the Registrar's Office. Application for admission to other faculties or years should in the first instance be made by letter to the Registrar.

ADMISSION FROM OTHER UNIVERSITIES

A student of another university applying for advanced standing or for exemption from any subject or subjects which he has already studied, must submit with his application a Calendar of the University in which he has previously studied and a certified copy of his academic record. He should also arrange to have sent separately to the University a confidential report from an officer of instruction or administration who is familiar with his work.

SCHOLARSHIPS AND BURSARIES

Details of the University Entrance Scholarships and of other scholarships, bursaries, and loan funds are given in the Scholarships Announcement which may be obtained from the Registrar's Office.

THE FACULTY OF ARTS AND SCIENCE

For further particulars see the separate Announcement of the Faculty.

The undergraduate work of the University in the Humanities, in Social Studies, in the Biological and Physical Sciences, and in Commerce, is done in McGill College, usually called the Faculty of Arts and Science. At the present time, the instruction given to certain groups of students within the Faculty is carried on at Dawson College, St. Johns, Quebec, a

residential college where these students are normally required to live (*see the General Information Pamphlet enclosed with this Announcement*). They nevertheless form part of the Faculty of Arts and Science, and correspondence concerning academic matters relating to them should be addressed to the Registrar of the University or to the Dean of the Faculty.

Women Students

Women are admitted to the courses and to the degrees of the Faculty on the same terms as men, but in the more elementary courses they are sometimes taught in separate classes.

Women students whose homes are outside Montreal must make application to the Warden of the Royal Victoria College for residence at the same time as the academic applications are submitted. Forms for this purpose are obtainable from the Registrar's Office or from the College.

Age of Admission

Except under special circumstances, no student under the age of sixteen is admitted to the First Year, or under the age of seventeen to the Second Year.

Entrance requirements

Eligibility to enter the University through Junior or Senior Matriculation is determined fundamentally by reference to the standards maintained by the McGill School Certificate Examinations. These examinations are described in a separate Announcement, but the names of the required papers are given below. Certain other public examinations also recognized for admission to the University are listed on pages 323 and 324.

Entrance through McGill School Certificate Examinations

I. (*a*) For admission to the First Year of the B.A. courses a candidate must pass in each of the following papers in the University's Junior School Certificate and obtain an average of at least 65% on the examination as a whole.

No. of Papers	Subject
2	English
1	History (General *or* British)
2	Latin or Greek
2	French; Latin; Greek; German; Spanish
2	Elementary Algebra and Elementary Geometry
1	One of the following: Biology; Botany; Chemistry; Drawing; Geography; (Canadian History); Physics; Music; Intermediate Algebra; Intermediate Trigonometry; *or* A foreign language not already chosen (the average of the two papers in a foreign language is counted)
10 papers	

(*b*) For admission to the First Year of the B. Sc. courses a candidate must pass the following papers in the University's Junior School Certificate Examination and obtain at least 75% upon the examination as a whole.

No. of Papers	Subject
2	English
1	History (General or British)
2	French or German (both papers)
1	Elementary Algebra
1	Elementary Geometry
1	One of the following: Biology; Botany; Chemistry; Physics
2	Either Latin or Spanish or French or German (if not already chosen) or any two of the following papers not already chosen: (a) Intermediate Algebra (b) Trigonometry (c) Biology or Botany (Biology and Botany may not both be chosen) (d) Chemistry (e) Geography (f) Physics (g) Canadian History, Music or Drawing. (Music and Drawing may not both be chosen)
10 papers	

(*c*) For admission to the first year of the B. Com. courses a candidate must pass the following papers in the University's Junior School Certificate Examination and obtain at least 65% upon the examination as a whole.

No. of Papers	Subject
2	English
1	History (British or General)
2	Elementary Mathematics (Algebra and Geometry)
2	Greek, Latin, French, German, or Spanish (French preferred)
3	Chosen from the following: Any one or more of the five languages not already chosen, Intermediate Algebra, Trigonometry, Chemistry, Physics, Biology, Botany, Geography, Canadian History, and either Music or Drawing
10 papers	

II. For admission to the Second Year of the Faculty of Arts and Science a pass with a 70% average in the following subjects in the University's Senior School Certificate is required:

(*a*) Arts Courses

For admission to the Second Year of the B.A. courses.

English
Latin or Greek
Mathematics* or a third foreign language
Any two of the following:—

1. History
2. Latin or Greek (the one not already chosen)
3. French
4. German
5. Spanish
6. Science (Physics or Chemistry or Biology)
7. Music

Candidates may substitute a third foreign language for Mathematics only if they have passed in the Elementary Mathematics of the Junior Certificate Examination or of some equivalent examination.

The Dean of the Faculty of Arts and Science may, at his discretion, admit a student who has substituted one of the other optional subjects for Mathematics if

(1) The student has already passed the Junior Certificate Examination, or some equivalent examination, in Elementary Mathematics;

(2) the record of the student shows sufficient promise to justify this concession.

Candidates who wish to enter the Faculty of Medicine at the end of the third Year of the B.A. course must take Mathematics.

(*b*) Science Courses

For admission to the Second Year of the B.Sc. courses.

Chemistry
English
French or German** or Biology or Greek or History or Latin or Spanish
Mathematics***
Physics

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*Two papers: one in Algebra and one in Trigonometry.

**A candidate who has passed the two papers in Junior French may obtain Senior B.Sc. or B.Eng. standing in German by passing the Junior examinations in this subject.

***The paper in Algebra and the paper in Trigonometry are compulsory. The paper in Co-ordinate Geometry is optional but is strongly recommended for candidates who intend to study for honours in Mathematics, Physics or Chemistry.

(c) Commerce Courses

For admission to the Second Year of the B. Com. Courses.

English
Mathematics*
Accountancy
A modern language
History, or a second language, or a Science

Only in exceptional circumstances is a student who has not written and passed the Junior Examination admitted by Senior Matriculation alone.

At least a good average second class standing in the Senior Examination or its equivalent is required for entrance.

Full details of these examinations are given in the School Certificate Examination Announcement.

A student with incomplete qualifications cannot be admitted as an undergraduate.

Applications for Admission

All applications to enter the Faculty of Arts and Science must be made on forms which may be obtained from the Registrar's Office. Women applicants should refer to the paragraph headed "Women Students" on page 317. Completed applications must reach the Registrar not later than September 5th.

The Admissions Committee also requires a confidential report from the principal of the applicant's school. This is made on a form which may be obtained from the Assistant Dean.

Students whose native language is not English must satisfy the Assistant Dean that their command of written and spoken English is fluent.

The number of students admitted is limited and the Faculty is not bound to accept applicants who have passed the required examinations.

Classes of Students in the Faculty

(1) *Undergraduates:* Students with complete matriculation qualifications taking the regular work of their year towards a degree.

(2) *Limited Undergraduates:* Students with complete matriculation qualifications who have been given the permission of the Dean of the Faculty to distribute the four years' work over five or more years (but not more than eight years), on the understanding that the sequence of courses conforms to the regular undergraduate rules and time table.

Limited Undergraduates are not eligible for scholarships, exhibitions, bursaries or prizes of any description and may not read for an Honours Degree.

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*Algebra and Trigonometry.

(3) *Partial Students:* Students not registered as proceeding to a degree who are allowed to take one or more lecture courses. Partial students must obtain the Dean's permission to register and must satisfy the lecturer in the course concerned that they have sufficient ability to do the work in such a course. Applications may be refused if limitation of space in lecture rooms and laboratories requires it. A student who has tried and failed to matriculate is not allowed to register as a partial student except under special circumstances.

In the courses they are taking, if any credit is desired, partial students must fulfil all the requirements of classroom work and tests prescribed for regular students.

A partial student who has successfully passed the courses of a previous year is not necessarily accepted at a later session.

Subject to the above limitations, lectures are open to partial students in both honours and general classes. Should a partial student acquire or subsequently be accorded regular standing by vote of the Faculty, his partial courses may by permission of the Faculty be counted toward a degree. Partial students are not eligible for medals, scholarships, bursaries, or prizes.

Period of Study

The regular length of a course for a B.A., B.Sc., or B.Com. degree is four years from Junior Matriculation, or three years from Senior Matriculation. Students from other universities are sometimes admitted to the upper years, but the bachelor's degree is never conferred upon a student who has spent less than two years in the Faculty.

Registration

Monday, the 29th of September is Freshman Day and all students entering the Faculty of Arts and Science for the first time are required to attend a meeting to be held in Moyse Hall on that morning at 9:30 o'clock. Registration of first year students begins on this day.

Registration of upper years will start on Thursday, the 25th of September, and will continue through Friday.

After September 30th a special late registration fee must be paid (see General Information Pamphlet).

No student is admitted after October 17th except by special permission of the Dean.

The special regulations for women students are given in the General Information Pamphlet.

Advisers

Students may consult the Dean, the Group Chairman, or the Assistant Dean, at any time. Women students may also consult the Warden of the Royal Victoria College.

Advanced Courses in the First Year

The Departments giving instruction in the First Year offer special lectures or work of a more advanced character to students with adequate qualifications.

These advanced courses are generally arranged by the Departments when lectures actually commence and there is in such cases no separate registration for them.

Students in the First Year who have the necessary qualifications may be permitted by the Dean to take one or more Second Year courses.

General Degrees and Honours Degrees

An undergraduate in the Faculty of Arts and Science may proceed to a General Degree, involving the study of a fairly wide range of subjects with a limited amount of specialization, or to an Honours Degree which, after the Second Year, necessitates almost complete specialization in either one or two subjects.

For details see the Announcement of the Faculty of Arts and Science.

Students in the School of Commerce who specialize in Economics may obtain honours in this subject. Other students in the School may be awarded distinction or great distinction.

Attendance

Students in the First and Second Years are required to attend at least seven-eighths of the total number of lectures and of the total number of laboratory periods in each course.

Examination Marks

The pass mark in all examinations is 50 per cent, and the marks for first and second class standing are 80 per cent and 65 per cent respectively.

The Two Terms

The regular session is divided into two terms, the first starting on the 1st of October and the second starting on the 12th of January. (For Calendar see the General Information Pamphlet.)

Students commencing a year in the Faculty are normally permitted to enter only in the Fall term.

Admission to the Second and Third Years

Applications for entrance to the Second and Third Years of the Faculty should be made to the Registrar's Office on the proper forms, and must be accompanied by complete details of previous school and university work. (*See also page 316*)

To obtain a bachelor's degree a student must spend at least two years in McGill College.

Concerning Students Who Intend to Proceed into the Professional Faculties

Each undergraduate in the Faculty is required to register for one of the three bachelor's degrees offered (see page 311), and, unless otherwise instructed by the Dean, must follow the regular work of his year toward this degree.

Students intending to transfer into one of the professional faculties before graduating in Arts and Science should make themselves familiar with the entrance requirements of the faculty they seek to enter and should see that the courses they choose conform with these requirements. (See pages 311 to 316)

For details concerning the granting of the B.A. or B.Sc. degree to students who transfer into the Faculty of Medicine or the Faculty of Dentistry at the end of the Third Year, see the separate Announcement of the Faculty of Arts and Science.

Scholarships and Bursaries

A separate announcement giving details of scholarships and bursaries may be obtained from the Registrar's Office.

EXAMINATIONS RECOGNIZED FOR ADMISSION TO THE UNIVERSITY

McGill University recognizes a number of public examinations as conferring, under certain circumstances, Junior or Senior Matriculation standing for admission to the Faculty of Arts and Science and other faculties and schools.

The Admissions Committees of the various faculties require generally that:

(1) The certificate has been obtained under no easier conditions than those of McGill Matriculation,

(2) The subjects of the examination and the school course followed are those the University requires,

(3) The school records and confidential reports are satisfactory.

Candidates who wish to enter by certificate should under no circumstances come to the University without first having obtained an official acceptance of their application.

The following gives a brief outline of the certificates and examinations accepted. For complete details see the School Certificate Examinations Announcement.

I. For admission to the First Year of the B.A., B.Sc., B.Com., B.Sc (Agr.), B.Sc. (H.Ec.), and B.Sc. (Phys. Ed.) courses.

Canada

The recognized Junior Matriculation or equivalent examinations of the various provinces.

Great Britain

The School Certificate of the recognized examining bodies with at least five credits.

The London University Matriculation Examination.

The Certificate of Fitness of the Scottish Universities Entrance Board.

United States

The tests of the College Entrance Examination Board. All candidates from the United States are advised to write these tests, preferably at the January or the April session.

Miscellaneous

Other certificates such as those issued by universities or public examining boards will be judged on their merits and accepted if they meet all the University requirements.

II. For admission to the Second Year of the B.A., B.Sc., B.Com., B.Sc. (Agr.), B.Sc. (H.Ec.), B.Sc. (Phys. Ed.), B.N. courses, and the First Years of the Faculty of Engineering and of the School of Physiotherapy.

Canada

The recognized Junior and Senior Matriculation or equivalent examinations of the various provinces.

Great Britain

The Higher Certificates of the recognized examining bodies.

United States

Completion of one year in an approved college with a suitable syllabus and good grades.

McGILL UNIVERSITY

MONTREAL

School Certificate Examinations

JUNE and SEPTEMBER

1948

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THE SCHOOL CERTIFICATE

As the result of a careful study of the functions of its public examinations, McGill University first offered in 1944 two new certificates, the Junior School Certificate and the Senior School Certificate. These certificates are awarded to candidates who pass examinations in subjects which form a reasonable course of study for a secondary school pupil.

Formerly the only certificates the University awarded were the Junior and the Senior Matriculation certificates. To obtain one of these a boy or girl had to qualify for admission to the first or the second year of a regular university degree or diploma course. This meant that school curricula were influenced by the entrance requirements of university faculties. The University no longer offers either the Junior or the Senior Matriculation certificates.

The School Certificates are obtainable on easier terms than the former matriculation certificates and candidates will have a much wider choice of subjects, so that schools now have far greater freedom in planning their curricula.

It must be emphasized, however, that the School Certificate does not automatically admit to any faculty or school of the University. To matriculate, i.e., to enter the University, a candidate must write and pass all the papers required by the faculty he wishes to enter and obtain the average mark the faculty has set. Thus, to enter the Faculty of Arts and Science an applicant must write ten papers (see page 408), although he may obtain the Junior School Certificate by writing eight papers only.

For the recognition of these Certificates for admission into the various faculties of the University, see pages 408 and 430.

SCHOOL CERTIFICATE EXAMINATIONS

GENERAL REGULATIONS

June and September Examinations

The School Certificate examinations are held in June and September —in June at McGill University and local centres; in September at McGill University only. The time-tables for these examinations are issued in February each year.

All inquiries relating to the examinations should be addressed to the Registrar of the University.

Application Forms

Every candidate for examination is required to fill in an application form and return it to the Registrar's Office with the necessary fee before the 20th of May* or the 20th of August for the June or September examinations respectively. After these dates applications may be accepted for the Montreal centre only. A special late fee of $1.00 is charged for such applications.

Fees

Junior Examination. The Junior Examination fee is $1.25 per paper with a maximum fee of ten dollars.

Senior Examination. The Senior Examination fee is three dollars per paper with a maximum fee of fifteen dollars.

Regulations

In centres outside Montreal candidates may be required to pay the whole or part of the expenses of invigilation.

A fee of $1.00 is charged for late applications. (*See above*).

No refunds are paid to candidates after the last day of registration (20th May or 20th August), excepting only when a candidate is absent throughout the whole examination on account of illness, and a medical certificate to this effect is presented within four weeks of the close of the examination.

Fees paid for one examination cannot be credited towards a subsequent examination.

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*Candidates wishing to take the Senior School Certificate examination in Oral French (*see page 436*) at a centre outside Montreal must notify the Registrar in writing before the *first of April* in addition to making application on the usual forms. The University will then decide whether this examination can be held at the requested centres.

Certificates

The examinations may be taken in parts but the University will issue a School Certificate only on the results of examinations written within a period of sixteen months.

This rule also applies to the recognition of certificates granted by other examining bodies.

School Certificates are issued only to candidates who have passed the conplete University School Certificate Examination.

Text-Books

Junior School Certificate

The University does not recommend or refer to specific text-books in the syllabi of its Junior School Certificate Examinations, except in Mathenatics. Set "texts", however, form an essential part of the language papers.

Senior School Certificate

The University has also discontinued the recommendation of some of the Senior School Certificate text-books, but in other subjects it is considered desirable that the work should follow closely that of the corresponding course in the first year of the Faculty of Arts and Science, and in such subjects the text-books used in the University courses have been retained as Senior School Certificate text-books for the present.

Consultation with Departments

The University Departments concerned will be pleased to give school principals or specialist teachers advice concerning methods or books of reference, and to discuss problems that may arise in connection with the syllabi for either the Junior or the Senior School Certificate Examinations. The Registrar will be glad to arrange such conferences.

Previous Papers

Books containing the examination papers set in either June or September of any one year may be obtained from the University Cashier at twenty-five cents a copy.

Publication of Results

Each candidate will receive a statement of his results as soon as they are ready. The certificates are sent to successful candidates a little later.

A list of the successful candidates is published in the Press. This list gives the class of the certificates obtained and any distinctions gained, but does not give any relative order of merit within the three classes.

The actual marks in each paper are sent to each candidate and are given on the back of the certificate but are not otherwise published.

JUNIOR SCHOOL CERTIFICATE

REQUIREMENTS FOR THE CERTIFICATE

To obtain a School Certificate a candidate must complete the requirements within a period of sixteen months. This allows four attempts in the June and September examinations of two successive years.

For first and second-class certificates two attempts only are allowed. For details, see page 408.

The pass mark in each paper is fifty per cent. To obtain the certificate a candidate must write eight papers chosen according to the regulations that follow and must *either* pass in every paper *or* obtain an average of at least sixty per cent in the eight papers with no individual mark below forty per cent.

COMPULSORY PAPERS

English Literature
English Composition
*French Grammar and Comprehension

OPTIONAL PAPERS

Five papers on optional subjects must be chosen from not less than two of the three groups below:

GROUP I	GROUP II
Algebra	French Translation and Authors
Geometry	German (two papers)
Chemistry	Spanish (two papers)
Physics	Latin (two papers)
Botany	Greek (two papers)
Biology	
Intermediate Algebra	
Trigonometry	
Advanced Arithmetic	

GROUP III

General History *or* British History
Canadian History
Geography
Art
Music

A candidate may write more than eight papers; in fact ten are required for entrance to the University (see page 408), but the certificate is awarded on the eight papers only. If a successful candidate writes more than eight papers, the class of the certificate he receives is reckoned on the subjects in which he has the highest marks. If such a candidate offers a subject, such as Latin, which has two papers, the marks in both

*The University may, under special circumstances, permit candidates to substitute another modern language for French.

these papers must either count towards the certificate or be neglected, i.e., a candidate cannot count towards his certificate the better of two Latin marks and the better of two German marks.

FIRST, SECOND, AND THIRD CLASS CERTIFICATES.

Successful candidates are awarded a school certificate of the first, second or third class.

To obtain a first or second class certificate a candidate must complete the examination in not more than two attempts within a period of sixteen months and may write a part of the examination at each attempt. The marks obtained in his first attempt will always be counted towards a third class certificate, but will not be counted towards a first or second class certificate if he fails in more than one paper. To obtain a first or second class certificate such a student must rewrite the whole examination, and the certificate will be awarded solely on the marks obtained at the second attempt.

An average of 80% or over in all the papers required for the certificate entitles a candidate who has complied with the previous regulation to a first class certificate.

An average of 70% or over obtained under the same conditions, entitles a candidate to a second class certificate. Other successful candidates receive a third class certificate.

DISTINCTIONS.

Candidates who obtain 80% or over in any subject are given distinction in this subject.

ENTRANCE REQUIREMENTS OF FACULTIES ADMITTING STUDENTS ON THE BASIS OF THESE EXAMINATIONS

FACULTY OF ARTS AND SCIENCE

To qualify for admission into the first Year of the Faculty of Arts and Science a candidate must pass (i.e. obtain 50%) in each of the ten papers listed below, and obtain an average mark of at least 65% in the ten papers combined.

Owing to limited accommodation the Faculty of Arts and Science will probably again be compelled to restrict admission to a limited number of the qualified applicants. No definite statement can be made at present concerning the minimum mark for admission, but in 1948 it will probably be at least 65% for Arts or Commerce and 70% for Science.

(*1*) *Admission to Courses leading to B.A. degree.*

No. of Papers	Subject
2	English
1	History (British or General)
2	Latin or Greek

2	Two papers in Greek or Latin (the one not already chosen); German, Spanish or French
2	Elementary Algebra Elementary Geometry
1	One of the following: Biology; Botany; Chemistry; Drawing; Geography; Physics; Music; one paper in Intermediate Mathematics; Canadian History; a foreign language not already chosen (the average of the two foreign language papers is counted)
10 papers	

(2) *Admission to courses leading to B.Sc. degree.*

In the University's own examination ten papers are required.

No. of Papers	Subject
2	English
1	History (British or General)
2	French or German
2	Elementary Algebra Elementary Geometry
1	One of the following: Biology; Botany; Chemistry; Physics
2	Either Latin *or* Spanish *or* French *or* German (if not already chosen) or any two of the following papers not already chosen: (a) Intermediate Algebra* (b) Trigonometry* (c) Biology or Botany (Biology and Botany may not both be chosen) (d) Chemistry (e) Geography (f) Physics (g) Canadian History (h) Music or Drawing (Music and Drawing may not both be chosen)
10 papers	

*Candidates who intend to enter Engineering should choose these subjects. They are also strongly recommended for candidates who intend to study for honours in Chemistry, Mathematics, or Physics.

(3) Admission to courses leading to B. Com. degree.

In the University's own examination ten papers are required.

No. of Papers	Subject
2	English
1	History (British or General)
2	Elementary Mathematics (Algebra and Geometry)
2	Greek, Latin, French, German, or Spanish
3	Chosen from the following: Any one or more of the above languages not already chosen, Intermediate Algebra, Trigonometry, Chemistry, Physics, Biology, Botany, Geography, Canadian History, and either Music or Drawing.
10 papers	

FACULTY OF AGRICULTURE

(1) *Admission to courses leading to B.Sc. (Agr).*

In the University's own examination ten papers are required.

No. of Papers	Subject
2	English
1	History
2	Latin *or* French *or* German *or* Spanish (French preferred)
2	Elementary Algebra Elementary Geometry
1	Physics *or* Chemistry *or* Biology
	EITHER
2	Latin *or* French *or* German *or* Spanish (if not already chosen);
	OR
	Any two of the following papers not already chosen:— (a) Intermediate Algebra; (b) Intermediate Trigonometry; (c) *Botany *or* *Biology; (d) Chemistry; (e) Physics; (f) Drawing; (g) Geography; (h) Canadian History; (i) Music (B.H.S. candidates only. Music and Drawing may not both be chosen.)
10 papers	

*Botany and Biology may not both be chosen.

(2) For admission to the School of Household Science the requirements are those of the Science Courses printed above.

PRESCRIPTION OF WORK IN EACH SUBJECT

For the examinations in June and September 1948.

In all papers marks will be deducted for bad errors in spelling.

Biology

All the subjects mentioned should be studied practically, both in the field and in the classroom. Vivaria and aquaria should be kept and plants should be grown in soil and water culture. Pupils should be encouraged to collect material and so add to the school museum. Typical preparations and demonstration dissections should be made. In small classes pupils might do some dissection personally. Simple experiments should be used wherever possible. The use of a hand lens is essential for every pupil and a microscope should be available.

The items of the syllabus may be studied in any order with due regard to the season and local conditions.

I. The general external characters and structure of a dicotyledonous flowering plant and of a small mammal such as a rabbit and the general biological principles to be drawn from such studies.

The general structure of a plant cell and of an animal cell as seen in Spirogyra and Amoeba. The properties of living matter. The differences between animals and plants.

II. The general structure, life-history, relation to environment, and broad classification of the following types based on practical study.

Plants: Thallophyta: Algae—unicellular and filamentous; Fungi—bacteria, yeast, mould, higher fungi. Bryophyta—one type. Pteridophyta—one type. Spermatophyta: Monocotyledons—one type. Dicotyledons—one herb and one tree. Details of the appearance and structure of the organs of a flowering plant considered in relation to function.

Animals: Protozoa—Amoeba, Paramecium; Coelenterata—Hydra; Annelida—Earthworm; Arthropoda—Crayfish, Grasshopper or Locust; Pisces—Perch, Pike, Cod or Haddock; Amphibia—Frog; Reptilia—external characters of Lizard or Turtle; Aves—external characters of a Bird; Mammalia—Rabbit.

III. The physiology of living organisms. Structure and function should be studied together.

Plant Physiology—Essentials of nutrition (photosynthesis, mineral nutrition, storage of food, special modes of feeding), respiration, water relations, growth and reproduction. The plant organism as a whole. Seasonal changes in perennial herbs and trees.

Animal Physiology—Elementary physiology of the animals listed in the preceding, including locomotion, nutrition, circulation, respiration, secretion, excretion, nerve control, action of hormones, growth, reproduction. Seasonal changes in animals.

IV. Field Natural History. The natural history of the plants and animals mentioned. Relationship of plants and animals in the general economy of nature. Trees and animals of the neighbourhood. Relation of plants and animals to their physical environment and to one another in one type of community, such as woodland pasture, cultivated land, swamp or an aquatic community. The dominant plants and animals of this community.

V. The interrelation of plants and animals with man. The importance of plants and animals as sources of food, shelter, clothing, commercial products.

Plants—Green plants as basic food supply. Man's staple food plants. Lumber, paper, rubber, etc. Plant geography and plant industries of North America in relation to climate. Useful bacteria and fungi; organic decay, carbon and nitrogen cycles. Pathogenic bacteria and fungi and their control.

Animals—Protozoan and other parasites as causal agents of disease; insects, useful and injurious, in relation to human health, farm stock, crops and forests. Food animals. Fur-bearing animals in relation to climate.

VI. Elementary outline of the principles of heredity and variation among plants and animals.

One examination paper.

BOTANY

All the subjects mentioned should be studied practically. Aquaria should be kept, plants grown in soil and water culture, and simple physiological experiments carried out. The use of a hand lens is essential for every pupil and a microscope should be available.

The items of the syllabus may be studied in any suitable order.

I. Organs and Cells.

The general external characters and structure of a flowering plant considered in relation to its mode of life.

Structure of a plant cell; properties of protoplasm; types of cell.

II. Types and Classification.

The general structure, life history, relation to environment and broad classification of the following types:

Thallophyta: Algae—Oscillatoria, Protococcus, Spirogyra, Oedogonium, Fucus or Laminaria.
Fungi—Bacteria, Yeast, Mould, Mushroom, other Fungi, including at least one parasitic form.
Lichens—general.
Bryophyta: A Liverwort, a Moss.
Pteridophyta: A Fern, Equisetum, Selaginella.
Spermatophyta: Gymnosperms—one Conifer type and general characters of other local species.
Angiosperms — a Monocotyledon; Dicotyledons — herbaceous and tree types. General structure of flower fruit and seed. Comparison with homologous structures of preceding types.

Leading characters of the groups listed above. Trends in the evolution of a many celled body and of sexual reproduction as illustrated by the algal types, and of alternation of generations and adaptation to land life as displayed by the higher forms.

General characteristics and common plants of the following families of flowering plants: Liliaceæ, Gramineæ, Orchidaceæ, Ranunculaceæ, Rosaceæ, Leguminosæ, Umbelliferæ, Solanaceæ, Labiatæ, Compositæ.

III. Physiology and Histology.

Elements of the microscopic structure of a typical leaf, root, herbaceous stem and woody stem studied in relation to the functions of the organ and its parts.

Essentials of nutrition (photosynthesis, mineral nutrition, storage of food, special modes of feeding), respiration, water relations, growth, tropisms, and reproduction. The organism as a whole. Seasonal changes in perennial herbs and trees.

IV. Field Natural History.

Common trees and some other plants of the neighbourhood. Elements of the ecology of at least one local area, such as wood, meadow, swamp or seashore. Adaptation to environment. Modes of pollination and of distribution and germination of seeds.

V. Heredity.

Elementary outline of the principles of heredity and variation as applied to plants.

VI. Relation to Man.

Green plants as the basic food supply. Man's staple food plants. Nature and source of other important plant products, e.g., lumber, fibres, paper, rubber. Useful bacteria and fungi; organic decay, carbon and

nitrogen cycle. Pathogenic bacteria and fungi and their control. Main types of vegetation found in North America, with emphasis on Canada; their relation to climate and to human activities.

One examination paper.

CHEMISTRY

I. Preparation, properties and uses of hydrogen; oxygen; ozone; hydrogen peroxide; the halogens and their hydrides; nitrogen, its hydride, oxides and acids; sulphur, its hydride, oxides and acids; carbon and its oxides; phosphorus, its hydride, oxides and acids.

II. General methods of production of the metals such as sodium; calcium, magnesium, aluminum, copper, chromium, and manganese

III. Periodic Classification of the Elements generally.

IV. Common industrial processes, including those for sodium hydroxide, lime, sodium carbonate, sulphuric acid, nitric acid ammonia, fixation of nitrogen, and calcium carbide.

V. Water, its composition and physical properties.

VI. Aqueous solutions of electrolytes and non-electrolytes.

VII. Catalysis.

VIII. Laws and theories associated with the following names: Boyle, Charles, Avogadro, Gay Lussac, Dalton, Lavoisier, Henry, Dulong and Petit, Arrhenius, and LeChatelier.

IX. Reversible Reactions.

X. Thermo chemistry of carbon, hydrogen, ozone.

XI. Elements of Atomic Structure.

XII. Atomic, molecular and equivalent weights.

XIII. The Atmosphere.

One examination paper.

DRAWING

Candidates must take two parts. They may take:

(a) Parts I and II

or (b) Parts III and IV

or (c) *one* of III and IV and *one* of V and VI.

PART I

Elementary problems in the graphic geometry of the circle, ellipse, and plane rectilinear figures.

PART II

(*a*) Reproduce freehand ornament designs from flat copies.

(*b*) Make drawings, by freehand, or otherwise, of objects described, illustrating the principles of perspective.

(*c*) Make outline drawings of objects placed at a short distance.

PART III

Make a drawing in light and shade, with charcoal or pencil, of a plaster cast or a still life group.

PART IV

Make water colour drawings of still life groups.

PART V. COMMERCIAL ART

(*a*) Lettering, including Roman and Gothic.

(*b*) Posters, Magazine Page Advertisements.

(*c*) Illustration, in colour and otherwise.

PART VI. CRAFT DESIGN

(*a*) Principles of ornament and decoration.

(*b*) Historic Styles.

(*c*) Themes, compositions or designs, founded on flowering plants, birds, fishes, butterflies, animals and humans, for specific purposes such as:—wall papers, embroideries, silver and copper work, jewellery, stained glass, decoration of pottery, cups and saucers, etc.

ENGLISH

A. Composition.

Short essays on general subjects including at least one question in which the candidate is addressing a particular audience. There will be a wide choice of subjects but the practice of setting essays on the general readings in English Literature will be discontinued. There are now no special readings required for the Composition paper.

B. Literature.

For Critical Study:

1. Poets:

1948. Wordsworth, Coleridge, Keats, and Browning in Poems of the Romantic Revival, or in Nineteenth Century Poetry.

1949. Byron, Shelley, and Tennyson in Poems of the Romantic Revival, or in Nineteenth Century Poetry.

2. Shakspere: 1948. Julius Caesar or Hamlet.
1949. Richard II or King Henry IV Pt. I.

For General Reading:

3. Novels: 1948. Thackeray—Henry Esmond
and
Hardy—Far from the Madding Crowd
or
Cather—Shadows on the Rock
1949. Dickens—David Copperfield
and
Austen—Pride and Prejudice
or
Roberts—Northwest Passage

4. Shakspere: 1947. The Merchant of Venise or Henry V
1948. As you Like it or Twelfth Night
1949. The Tempest or Midsummer Night's Dream

5. Essays: Selections from Addison, Steele, Goldsmith, Lamb, Hazlitt, Stevenson, and one or two modern essayists to be selected by the teacher.

6. Biography: Modern Plays, and Modern Poetry (One to be chosen)
Shaw—Saint Joan
Galsworthy—Strife
Churchill—A Roving Commission
Curie—Madame Curie
A collection of modern poetry to be selected by the teacher.

FRENCH

Grammar and Comprehension.

The examination will consist of the following four parts:

A. *Oral Comprehension.*

Either a passage in French will be read to the candidates who will then be asked to answer, in English, questions on this passage, or a French dictation will be given.

B. *Written Comprehension.*

One or more short passages in French will be given to the candidates to read. They will then be asked to answer, in English, questions on these passages.

C. *French Composition.*

A short essay to be written in French upon a topic selected by the candidate from a list printed on the examination paper.

D. *Grammar.*

(a) Simple English sentences to be translated into French.

(b) Questions on fundamental grammatical forms (plurals, tenses of verbs, feminines, etc.).

A detailed syllabus may be obtained from the Registrar's Office.

Translation and Authors.

A. Translation from English into French.

B. Translation from French into English:
one sight passage,
one or more passages from the texts.

C. Questions on the texts to be answered in French.

French Texts:—

1948. Fauchois: Prenez garde à la peinture (Holt), *and* Augier and Sandeau: Le Gendre de M. Poirier (Holt).

1949. Maupassant: Ten Short Stories (Ginn), Pailleron; le Monde où l'on s'ennuie (Holt).

GEOGRAPHY

Geography is taken to be primarily the study of the earth as the home of differentiated communities and cultures; this calls for a clear understanding of the ways in which men have shaped the habitable parts of the environment to their own ends, and have themselves been influenced in the process. It also calls for an examination of the functional role of land forms, rivers, climates, vegetation, etc., in guiding human activities. By and large, greater attention should be paid to the human, rather than to the physical aspects of the subject.

Candidates are expected to have an elementary knowledge of map reading, and an ability to draw simple sketch maps. They may be asked to insert data on a base map of a given country or continent; to describe and analyse the geographical features of selected photographs; and to show familiarity with the geography of their home district.

A. *General Geography.*

The shape and size of the earth; latitude and longitude; great and small circles. Simple map projections.

The movements of the earth: local time: the seasonal rhythm.

The distribution of land and water. Materials of the earth's crust: soils. Land forms and their modification. The oceans: salinity, currents, tides.

Weather and climate. Atmospheric circulation: isobars and pressure systems (e.g. cyclones, anticyclones). Prevailing and local winds. Temperature: rainfall and humidity. Climatic types.

Major natural regions of the world: their cause, location and characteristics.

The peoples of the world. Main racial types and distribution.

Geographical factors governing habitability of land. Distribution of world population: dominant cultural types (e.g. pastoral, agricultural, industrial). Location of leading cities and ports.

The changing pattern of world trade and transportation by sea, land and air.

The main political divisions of the world, with special reference to recent boundary changes.

B. *Regional Geography.*

The countries around the North Atlantic: Canada, the British Isles, the United States of America, and France, taken in decreasing order of detail. Position, physical features, climate, natural resources, and, in outline, the history of development, as influencing the present distribution of population, and the occupations, trade, and life, of the people.

One examination paper.

GERMAN

B.A.

Texts (Translation and grammatical study): Guerber, Märchen und Erzählungen Vol. 8. (Heath), Numbers 1, 2, 5, 6, 7, 8, 11, 12, 13, 14, 15; A. Sapper; Frieder, Im Thüringer Wald (F. S. Crofts & Co., New York, 1934).

Grammar:—A thorough knowledge of German accidence and syntax.

Translation at Sight from English into German and German into English of easy prose passages.

B.Sc.

Texts (Translation and grammatical study): Guerber: Märchen und Erzählungen Vol. 1, (Heath), Numbers 1, 2, 5, 6, 7, 8, 11, 12, 13, 14, 15; and Fiedler and Sandbach: A first German Course for Science Students (O.U.P.).

Grammar:—A knowledge of German accidence and syntax.

Translation at Sight of sentences from English to German and of easy prose passages from German into English.

Two papers; one on prescribed texts and grammar, including translation of short English sentences into German, and one on translation of continuous passages from German into English and from English into German.

GREEK

Texts: Colson, Greek Reader (Macmillan) Parts III, IV, V; Allen, The First Year of Greek (Macmillan), Lessons 1-34 inclusive, with the Exercises belonging to these lessons.

Grammar:—Knowledge of grammar will be tested by translation and by grammatical questions based on the specified texts.

Two examination papers; one on Colson and Grammar; the other on Allen and Composition.

HISTORY

(*a*) *General History from 1618-1914*
One examination paper.

(*b*) *British History from 1714-1914*
One examination paper.

(*c*) *Canadian History to 1927*
One examination paper.

In preparing for the History papers a rigid adherence to any one author or to any one book is quite undesirable. Instead, a broad and extensive basis of reading and study should be encouraged, provided always that the standard of historical scholarship normally recognized as applicable to the last two years of secondary school work is not exceeded.

British and General History

For both the European continent and the British Isles a descriptive knowledge of the principal physiographical features and their historical influence is assumed; also a similar descriptive knowledge of races and nationalities with their geographical distribution and inter-relations.

Candidates should be trained in an elementary technique in dividing their subject as a whole into successive periods or eras. For each successive period this elementary technique should be carried to a point at which a candidate is equipped to indicate the following: 1,—the prevailing and distinctive characteristics of a period together with the transitional influences leading to the next; 2,—the political and other movements common to several countries at the same time; 3,—the history of individual countries or States both large and small, when these are of outstanding importance; 4,—the changing views of the nature of the State and of the nature of government and public authority; 5,—international relations and foreign policy in general; 6,—the Balance of Power,

the purposes and objects of wars, military and naval history, treaties of alliance and of peace; 7,—such leading topics as the Eastern Question, Mediterranean rivalry, the Rhine as a frontier, the Polish and the Irish Questions, etc. Religious changes and the history of Churches should be viewed in the light of their relations with the State as well as of their broader connections with society. A beginner's acquaintance should be sought with different ways of political thinking involved in such schools of thought as Liberalism, Conservatism, Reaction, Socialism, Imperialism, Nationalism, etc. To these should be added an elementary study of commerce and commercial rivalry, of transport and transportation routes, together with an outline sketch of the progress of science, of industry and industrial life, of education, letters, and the fine arts. For the British Isles, industry, industrial life and constitutional development are naturally to be stressed.

General history (1618-1914) is intended to include the History of European countries during this period, together with some knowledge of that of their colonies.

A supplementary use of biographies and of historical fiction is strongly advised. The following books are suggested as examples of what the candidates may be recommended to read in this connection, but it is not intended to imply that teachers should not be at liberty to suggest additional works to their classes in accordance with their particular interests. The paper will include questions which will give candidates an opportunity of showing their knowledge of these supplementary readings.

General History: 1618-1914

K. Federn:	Richelieu
F. Watson:	Wallenstein
J. Buchan:	Cromwell
F. Funck-Brentano:	The Old Regime in France
A. Young:	Travels in France
H. Fisher:	Napoleon
J. Holland Rose:	The Personality of Napoleon
P. Guedalla:	The Hundred Years
H. du Coudray:	Metternich
P. Guedalla:	The Second Empire
G. M. Trevelyan:	Garibaldi and the Thousand
E. Ludwig:	Bismarck

British History: 1714-1914

J. Addison:	Essays from the Spectator
H. Walpole:	Selected Letters (Everyman)
J. L. & B. Hammond:	The Village Labourer
Cobbett:	Rural Rides
P. Guedalla:	The Duke

J. L. & B. Hammond:	Lord Shaftesbury
Mrs. Craik:	John Halifax Gentleman
L. Strachey:	Queen Victoria
L. Strachey:	Eminent Victorians
A. Maurois:	Disraeli
Quennell:	History of Every-day Things in England, 1733-1851
H. Spring:	Fame is the Spur

Canadian History to 1927

There are no text books assigned to this course. Such histories of Canada as Stuart Wallace's *History of the Canadian People*, or Duncan McArthur's *History of Canada* or G. W. Brown's *Building the Canadian Nation* are useful in drawing together the various aspects of the subject.

A general knowledge of Canadian history should be sought. Candidates must be familiar with the main features of Canadian geography, and be able to relate these features to historical development in successive periods. Special attention should be given to social and economic history; political and constitutional history may be taught best in relation to social and economic growth. It is desirable, also, that students have some knowledge of the racial groups from which the modern Canadian people evolved.

(1) Geography; the North American Indians.

(2) The era of Discovery, 800-1600.

(3) Canada as a Province of France, 1600-1763.

The Fur Trade and Exploration; the peopling of New France; the place of the Church in the life of the Province; the government of New France; the struggle for supremacy in North America.

(4) Canada as a British Province, 1760-1860.

French Canada and British rule; contests with the United States, 1775-1814; the West and the Fur Trade; the coming of the British immigrants; the lumber trade and the wheat trade in Eastern Canada; transportation by river, road, and rail; the struggle for self-government.

(5) The National State, 1850-1927.

The Confederation movement; the West; the tariff, and the first transcontinental railway; progress in the early twentieth century; the First Great War, and the post-war era; the development of diplomatic relations to 1927.

A wide reading of biographies and of historical fiction is strongly recommended. More specialized books may be consulted also. *The Makers of Canada* contain much good biographical material; *The Chronicles of Canada*, material of a more general character. The following list of books is in no way exhaustive, but is intended to suggest to the teacher some of the books available.

J. L. Burpee:	An Historical Atlas of Canada.
C. W. Jefferys:	Illustrations from Canadian History, Vol. 1.
Brown, Woodley, Denton and Talman:	Readings in Canadian History.
G. Wrong	The Rise and Fall of New France.
E. C. Guillet	The Great Migration.
H. Keenleyside:	Canada and the United States.
D. C. Harvey	The Colonization of Canada.
G. Bouchard:	Other Days; Other Ways.
A. Macmechan:	Old Province Tales.
W. Cather:	Shadows on the Rock.

LATIN

Texts (Translation and Grammatical study).

Latin Prose and Poetry (Bonney and Niddrie).

Cicero I, II, IV, VI and Letter VIII.

Nepos, I, II, VII, VIII, X.

Caesar, I, II.

Pliny, I, VI, VIII, IX, XI.

Virgil, Part I. I-VII.
Part II, Georgics, I-V.

Ovid, VI, VIII-X.

Horace, I, IV, VI, VIII.

Martial, I-IV, VIII, X.

Every-day Life in Rome, Treble and King (Oxford).

Knowledge of grammar will be tested by translation and composition, and by questions in grammar based on the specified texts.

Translation at Sight from Latin into English (with the aid of a vocabulary of unfamiliar words).

Composition. Translation into Latin of detached sentences. The vocabulary is based upon the texts studied.

(There will be no questions set upon: subordinate clauses in indirect narration; temporal clauses with *dum*, *donec*, and *quoad*; *antequam* and *priusquam*; *quin* and *quominus* clauses; causal and concessive clauses.)

Two examination papers; one on the Prose authors and composition; the other on the Poets, Sight Translation, and on the text book Everyday Life in Rome.

NOTE—The "Roman" method of pronouncing Latin is recommended.

MATHEMATICS

Higher Arithmetic.

1. Addition, subtraction, multiplication, and division of integers. Factors, highest common factor, and least common multiple.
2. Properties of vulgar fractions including addition, subtraction, multiplication, and division. Complex Fractions.
3. Properties of decimals including the conversion of vulgar fractions into decimals and vice versa. Extraction of square root. Contracted multiplication and division of decimals.
4. Simple properties of ratio and proportion. The unitary method.
5. Simple properties of percentages, e.g., changing a fraction to a per cent and vice versa, finding what per cent one number is of another.
6. Units of measurement and changing from one unit to another. A knowledge of the standard tables of weights and measures will be expected, e.g., length, area, volume, capacity (liquid and dry), apothecaries (fluid and weight), avoirdupois and troy weight, time, English and Canadian monetary systems. The metric system.
7. Simple mensuration of the rectangle, triangle, parallelogram, trapezoid, circle, cylinder, cone, and pyramid.
8. The construction and interpretation of simple graphic and other representative diagrams of concrete numbers.

Candidates will be expected to apply the preceding principles to the solution of simple problems such as the making of solutions and preparation of dosages, the relation between pressure and temperature of a gas, the comparison between fahrenheit and centigrade thermometric scales, etc. Students should be taught to apply rough approximations, such as

$$\frac{3.1416 \times \sqrt{64.37}}{\sqrt[3]{126}} = \frac{3 \times 8}{5} = 5$$

to check the accuracy of their work and they should also be shown how to use tables of squares, square roots, cubes and cube roots of integers and decimals. A knowledge of circulating decimals will not be required.

One examination paper.

Elementary Algebra.—Elementary rules, involution, evolution, fractions, indices, surds, simple and quadratic equations of one or more unknown quantities, ratio and proportion, as in High School Algebra by J.

T. Crawford (Revised Edition, 1940) published by Macmillan and Co., pp. 1-320, or similar text-books.

One examination paper.

Elementary Geometry.—The paper will contain questions on practical and on theoretical geometry.

In practical geometry, where the validity of a construction is not obvious, the reasoning by which it is justified may be required. Every candidate must provide himself with a ruler graduated in inches and tenths of an inch, and in centimeters and millimeters, a set square, a protractor, compasses, and a hard pencil. All figures should be drawn accurately.

The questions on theoretical geometry will consist of theorems contained in the text-book prescribed, together with questions upon these theorems, easy deductions from them, and arithmetical illustrations. Any proof of a proposition will be accepted if it forms part of a systematic treatment of the subject.

In the proof of theorems and deductions from them, the use of hypothetical constructions will be permitted. Proofs which are only applicable to commensurable magnitudes will be accepted.

Text-book recommended:—Geometry for High Schools by W. J. Lougheed and J. G. Workman, published by the Macmillan Co. of Canada (1941), omitting pp. 223-224, 242, 308-314, 323-329, or the same subject matter in any similar text-book.

One examination paper.

Intermediate Mathematics

Algebra.—Arithmetic, geometric and harmonic progressions, variations, permutations and combinations, binomial theorem, logarithms, number system, theory of quadratic equations, as in Intermediate Algebra by H. Tate, published by Sir Isaac Pitman and Son, Toronto, or as in similar text-books.

One examination paper.

Trigonometry.—Measurement of angles, radian measure, trigonometrical ratios of functions of one angle, of two angles, and of a multiple angle, relations between the sides and angles of a triangle, easy problems on heights and distances, easy trigonometrical equations, as in Elementary Trigonometry by H. S. Hall and S. R. Knight, adapted for use in Canadian Schools (1940 edition), published by the Macmillan Company of Canada, Chaps. I to XI inclusive, omitting paragraph 113a, or as in similar text-books.

One examination paper.

Four-figure mathematical tables will be provided.

Music

The Intermediate Grade Certificate of McGill University in practical subjects and the Junior Grade Certificate in theoretical *or* vice versa. (Details will be found in the Announcement of the Conservatorium of Music.)

Physics

The following are the main topics required in Mechanics, Heat, Electricity and Magnetism. There is one examination paper.

Mechanics

Measurements of length, area, volume, mass and weight. The beam and spring balances.

Uniform and uniformly accelerated motion in a straight line; Newton's laws of motion and simple applications of them. Motion under gravity; the law of gravitation. Moments of forces; composition of parallel forces, equilibrium of forces (parallelogram and triangle laws); centre of gravity. Work, energy, power. Sliding friction. Mechanical advantage of a machine; levers, pulleys, wheel and axle, differential pulley and differential wheel and axle, inclined plane, wedge, screw; efficiency of a machine. Density and specific gravity. Fluid pressure, Pascal's law; hydraulic press. Relation between pressure and depth. Buoyancy; Archimedes Principle; floating bodies. Measurement of specific gravity of solids and liquids; specific gravity bottle, hydrometer.

Weight and pressure of air; barometers, determination of altitude, weather forecasting, Boyle's Law. Air pumps and compressors. Pressure gauge. Suction and force pumps, siphon.

Surface tension and capillarity (qualitative treatment).

Heat.

Elementary ideas of the structure of matter amd kinetic theory of gases. Sources of heat. Temperature; construction of a liquid in glass thermometer, fixed points, graduation; Centigrade and Fahrenheit scales. Expansion of solids, coefficient of linear expansion; expansion of liquids, anomalous expansion of water. Expansion of gases, Charles' Law, absolute temperature; the gas equation.

Heat quantity and its measurement in calories and B.T.U., specific heat, capacity for heat; calorimetry by method of mixtures. Change of state; fusion and solidification; effect of pressure on melting point; heat of fusion; freezing mixtures; vaporization, rate of evaporation, saturated vapour, boiling, effect of pressure change (including altitude); heat of vaporization of water; cooling by evaporation. Condensation of water in the air; dew point; relative humidity, wet and dry bulb hygrometer,

humidity and health; atmospheric phenomena—fog, clouds, dew, frost, rain, snow, hail.

Mechanical equivalent of heat; steam engine.

Conduction of heat, solids, liquids and gases; convection, currents in fluids, winds; radiant heat, emission and absorption; heating of buildings, ventilation; refrigeration.

Magnetism.

Natural and manufactured magnets; polarity, attraction and repulsion. Magnetic induction, magnetic field. Molecular theory. The earth as a magnet; compass, declination, dip.

Static Electricity.

Electrification by friction, attraction and repulsion, two kinds of electrification; conductors and insulators; electrons; gold leaf electroscope. Electrification by contact and induction; testing charge on a body; induced charge equal to inducing charge; charges by friction equal and opposite; charges reside on outside of empty hollow conductor. Action of points, lightning rods. Potential. capacity, condensers, Leyden jars.

Current Electricity.

Magnetization of steel by discharge of Leyden jars.

Voltaic cell, electric circuit, series and parallel arangements. The magnetic, chemical and thermal effects of a current; Oersted's experiment, magnetic field due to a straight wire, circular wire, and helic; polarity. Action of one current on another, Ampère's Laws, Tangent and moving coil galvanometers. Electromagnet. Electric bell and telegraph. Electrolysis of water, laws of electrolysis, coulomb, measurement of current; electroplating. Voltaic cell, chemical action, electromotive force, polarization, local action. Leclanche and dry cells. Storage cells, lead accumulator. Heat developed by current; electric iron, fuses, incandescent lamp and arc light. Ohm's Law; practical units, ampere, volt, ohm; fall of potential in circuit, method of substitution for measuring resistance. Law of dependance of resistance on length and cross-section of cylinder. Work done in a circuit, rate of working in circuit and in lamp. Ammeters and voltmeters.

Electromagnetic induction; Faraday's experiments. Induction coil. Dynamo, armature, field magnets, commutator for D.C. electric motor, transformer, telephone.

SPANISH

Two papers. One paper will contain questions on grammar, sentences to be translated from English into Spanish, and questions to be answered in English, to show comprehension of an easy Spanish passage.

The second paper will contain questions on the set texts, including translation and comments on the grammar and contents, and also the translation into English of an unseen Spanish passage.

Texts prescribed:—Alvarez Quintero: La Flor de la Vida (Heath & Co.). El padre Isla: Gil Blas de Santillana (Macmillan).

CERTIFICATES RECOGNIZED

Candidates for admission offering certificates which are not a full equivalent may be required to pass in one or more McGill papers.

Intending students who wish to enter by certificate should under no circumstances come to the University without having first obtained from the Registrar a statement of the value of the certificate they hold.

The following certificates *will be considered on their merits* towards meeting the University entrance requirements.

Admission to the Faculty of Arts and Science is determined on the standards set from time to time by the Faculty. A certificate does not guarantee acceptance.

PROVINCE OF QUEBEC
The High School Leaving Certificate
The Catholic High School Leaving Certificate

PROVINCE OF ONTARIO
Middle School

PROVINCE OF NEW BRUNSWICK
Junior Matriculation

PROVINCE OF NOVA SCOTIA
Grade XI Certificate

PROVINCE OF PRINCE EDWARD ISLAND
Second Year Certificate of Prince of Wales College

PROVINCE OF BRITISH COLUMBIA
Junior Matriculation

PROVINCE OF MANITOBA
Grade XI Certificate

PROVINCES OF ALBERTA AND SASKATCHEWAN
Grade XI

NEWFOUNDLAND
Junior Matriculation

GREAT BRITAIN

The School Certificate of:

The Oxford and Cambridge Schools Examination Board

The Oxford Local Examination Board

The Cambridge Local Examination Board

The Northern Universities Joint Examination Board

The Central Welsh Board

The University of Durham

Bristol University

The University of London

The University of London Matriculation

The Certificate of Fitness issued by the Scottish Universities Entrance Board

The conditions under which the School Certificates above will qualify a candidate for admission to the Faculty of Arts and Science are approximately those required by Oxford or Cambridge University. In general, at least five credits must be obtained in subjects other than Religious Knowledge, and the certificate must show passes in English, Mathematics, a Modern Foreign Language, and (for entrance to the B.A. course) a Classical Language or (for entrance to the B.Sc. course) a Science.

UNITED STATES

1. McGill University recognizes the examinations conducted by the College Entrance Examination Board, P.O. Box 592, Princeton, New Jersey, and all candidates from the United States are strongly advised to write these tests.

2. Applicants for admission should preferably write the January or the April tests, taking the Scholastic Aptitude Test and any three Achievement Tests. The Achievement Tests should be chosen in consultation with the applicant's school Principal.

3. In addition, applicants must submit their complete High School record and should arrange for a confidential letter from the school Principal to be mailed directly to the University.

MISCELLANEOUS

Other certificates, such as those issued by universities or recognized public Examining Boards, will be judged on their merits and accepted in so far as they meet the entrance requirements.

SENIOR SCHOOL CERTIFICATE

REQUIREMENTS FOR THE CERTIFICATE

To obtain the Senior School Certificate the candidate must pass in English Literature and English Composition and in at least three of the following subjects:

Accountancy	History
Biology	Latin
Chemistry	Mathematics
French	Music
German	Spanish
Greek	Physics

To satisfy the examiners in a language the candidate must pass in each of the two papers in this language.

To satisfy the examiners in Mathematics the candidate must write and pass at least two of the three papers offered in this subject.

Pass Mark.—The pass mark in each paper is fifty percent.

Classes of Certificate.—Successful candidates are awarded a Senior School Certificate of the first, second, or third class.

To obtain a first or second class certificate a candidate must complete the examination in not more than two attempts within a period of sixteen months and may write a part of the examination at each attempt. The marks obtained in his first attempt will always be counted towards a third class certificate, but will not be counted towards a first or second class certificate if he fails in more than one paper. To obtain a first or second class certificate such a student must rewrite the whole examination, and the certificate will be awarded solely on the marks obtained at the second attempt.

An average of 80% or over in all the papers required for the certificate entitles the candidate who has complied with the previous regulation to a first class certificate.

An average of 70% or over obtained under the same conditions, entitles a candidate to a second class certificate. Other successful candidates receive a third class certificate.

Distinctions.—Candidates who obtain 80% or over in any subject are given distinction in this subject. Distinction is not given in *single* papers of Mathematics or the languages (including English).

UNIVERSITY ENTRANCE REQUIREMENTS

(Senior Matriculation)

Under certain conditions, a candidate may qualify for admission into the Second Year of the Faculty of Arts and Science or the First Year of the Faculty of Engineering by writing and passing the required papers of the Senior School Certificate Examination.

I. Faculty of Arts and Science

Junior Matriculation standing (see page 408) is required in addition to the following Senior School Certificate papers.

(a) Arts Courses

For admission to the Second Year of the B.A. courses.

English

Latin or Greek

Mathematics* or a third foreign language

Any two of the following:—

1. History
2. Latin or Greek (the one not already chosen)
3. French
4. German
5. Spanish
6. Science (Physics or Chemistry or Biology)
7. Music

Candidates may substitute a third foreign language for Mathematics only if they have passed in the Elementary Mathematics of the Junior Certificate Examination or of some equivalent examination.

The Dean of the Faculty of Arts and Science may, at his discretion, admit a student who has substituted one of the other optional subjects for Mathematics if

(1) the student has already passed the Junior Certificate Examination, or some equivalent examination, in Elementary Mathematics;

(2) the record of the student shows sufficient promise to justify this concession.

Candidates who wish to enter the Faculty of Medicine at the end of the Third Year of the B.A. course must take Mathematics.

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*Two papers: one in Algebra and one in Trigonometry.

(b) Science Courses

For admission to the Second Year of the B.Sc. courses.

Chemistry

English

Mathematics**

Physics

French *or* German* *or* Biology *or* Greek *or* History *or* Latin *or* Spanish

(c) Commerce Courses

For admission to the Second Year of the B.Com. courses.

English

Mathematics

French *or* German *or* Spanish *or* History

Accountancy

Any of the following:

1. Latin *or* Greek
2. French *or* German *or* Spanish (one not already chosen)
3. Physics *or* Biology *or* Chemistry
4. History (if not already chosen)

II. Engineering

For admission to the First Year of the Faculty of Engineering (Engineering and Architecture Courses).

Chemistry

English

Mathematics (all three papers are required)

Physics

Biology *or* French *or* German* *or* Greek *or* History *or* Latin *or* Spanish

A high standing in Mathematics is required.

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*A candidate who has passed the two papers in Junior French may satisfy the Senior B.Sc. or B.Eng. German requirements by passing the Junior examination in German.

**The paper in Algebra and the paper in Trigonometry are compulsory. The paper in Co-ordinate Geometry is optional but is strongly recommended for candidates who intend to study for honours in Mathematics, Physics, or Chemistry.

REQUIREMENTS IN EACH SUBJECT

(For the examinations in June and September 1948)

Accountancy

Double-Entry Book-keeping, including all subsidiary books and ledgers, up to and including the use of Control, Total or Balancing Accounts; closing off of ledgers; preparation of Trading and Profit and Loss Statements and Balance Sheets.

Books specially required:

Cash-Book suitable for an office, where all cash and cheques received are banked daily, all payments above a certain amount are made by cheque, and all lesser payments through petty cash. Cashier to be able to show the balance in the bank at any time at very short notice.

Cash-Book suitable for an office, where sums of cash are kept in the office, in addition to petty cash, and deposits in bank do not include whole of receipts. Cashier to be able to show balances of cash, etc., in office and in bank at any time, and at very short notice.

Departmental Sales and Purchases Journals for recording transactions in different classes of goods.

General Journal ruled so as to segregate items according to ledgers into which they are to be posted, in order that totals may be posted to control accounts.

Other matters specially required:

Bills and Notes Payable Registers.

Imprest System of Petty Cash.

Reserve for Bad Debts, Discounts and Depreciation.

Inward and Outward Consignments.

Inward and Outward Freight on Merchandise purchased and sold.

Accrued Expenses and Deferred Charges.

Single Entry Book-keeping.

Use of Working Sheets.

Candidates may be required to define and explain such terms as the following:—

Invoices; I.O.U.'s; Promissory Notes; Bills of Exchange and parties thereto; Acceptances, Endorsements, etc.; Cheques; Bills drawn in a Set; Bills of Lading; Capital and Revenue Receipts and Expenditure; Current and Fixed Assets; Capitalization.

Marking is arranged so as to prevent any candidate obtaining a pass unless he has shown that he has a sound knowledge of what is outlined in the first paragraph. No candidate is passed who does not show that he understands Control Accounts and their uses. For this purpose subsidiary ledgers and their control accounts in the General Ledger must be shown in full; in addition, the books of original entry must be so ruled and organized that they will produce the required figures no matter how large may be the quantity of items dealt with.

One examination paper.

BIOLOGY

The botanical part of this syllabus is the same as for Junior School Certificate Botany (p. 412) with the following modifications:—

(a) further knowledge of the ecological interrelation of plants and animals is required.

(b) knowledge of the characteristics of particular families of flowering plants is *not* required.

In order to fulfil the requirements of the syllabus satisfactorily, pupils must undertake individually the dissection of animals, section-cutting of plant tissues, microscopic examination of small organisms and tissues, and simple physiological experiments.

A more intensive study of the Junior School Certificate syllabus is expected, with extension along the following lines:

I. The structure, life-history, principles of classification and evolutionary relationships of the following, based on practical study:

Plants:

Thallophyta:	Algæ—Oscillatoria, Protococcus, Spirogyra, Oedogonium, Fucus or Laminaria,
	Fungi—Bacteria, Yeast, Mould, Mushroom, other Fungi including at least one parasitic form.
	Lichens—general.
Bryophyta:	A Liverwort, a Moss.
Pteridophyta:	A Fern, Equisetum, Selaginella.
Spermatophyta:	Gymnosperms—one Conifer type and general characters of other local species.
	Angiosperms —a Monocotyledon; Dicotyledons—herbaceous and tree types. General structure of flower, fruit and seed. Comparison with homologous structures of preceding types.

Leading characters of the groups listed above. Trends in the evolution of a many celled body and of sexual reproduction as illustrated by the algal types, and of alternation of generations and adaptation to land life as displayed by the higher forms.

Animals:

Protozoa—Amœba, Euglena, Paramœcium, Plasmodium.

Cœlenterata—Hydra, Obelia.

Platyhelminthes—Fasciola, Tænia.

Annelida— Lumbricus, external characters of a Ploychæte.

Arthropoda—Crayfish, Grasshopper.

Mollusca—Clam or Snail.

Cephalochorda—Amphioxus.

Pisces—Dogfish.

Amphibia—Frog.

Mammalia—Rabbit or Rat, skull of Dog or Cat.

Comparison of the various organ-systems in the animals listed.

Asexual and sexual reproduction. Alternation of Generations.

Elements of vertebrate embryology as found in the developing Frog and in the Chick (up to end of third day of incubation), to be studied practically.

II. Physiology: structure in relation to function.

Plants—Microscopic structure of a typical leaf, root, herbaceous stem and woody stem studied in relation to the functions of the organ and its parts.

A fuller knowledge of the principal physiological processes as outlined in the Junior Syllabus. This should be based on simple experiments carried out by the student, which he may be asked to describe.

Animals—The chief physiological processes, as outlined in the Junior Syllabus, should be studied more fully and comparatively in all the types listed in Section I.

Tissues and organs and their functions as observed in Vertebrates.

Respiratory pigments. Vitamines, Hormones. Commensalism. Parasitism.

III. Field Natural History and Ecology.

This should be extended beyond the Junior Syllabus to include study of several biotic communities of the neighbourhood, with some knowledge of the dominant plants and animals in each and their relation to one another and to the physical environment.

Life zones and living natural resources of Canada.

IV. Heredity and Evolution.

The main principles of heredity and variation among plants and animals.

Cytological basis of heredity.

Evidences of organic evolution.

One examination paper.

CHEMISTRY

Text-book:—Schlesinger, General Chemistry, third edition (1937), omitting pages 319-322, 333-336, 338-345, 368-371, 535-539, 542-553, 561-613, 765-767.

Laboratory Manual:—Barnes, General Chemistry Laboratory Manual, (Second Edition, 1940), is recommended. *Minimum* requirements, Chaps. 6 to 10, 12, 15, 18, 20A, 21 and any five others selected from Chaps. 4, 5, 11, 13, 14, 19, 20B, 20C, 22, or the equivalent from any standard manual designed for first year university students.

One examination paper.

The student's notebook, setting forth his own laboratory work (together with any problems or exercises carried out in connection with the laboratory work), certified by the Instructor and Principal of the School, must be forwarded to the Registrar for the examiner's evaluation *before the date of the written examination.*

ENGLISH

Composition.—The examination will be designed mainly to test the candidate's ability to write English. He will be expected to have acquired a fairly clear and accurate style, to be able to arrange material in an effective fashion, and to show discrimination in the choice of words. In preparation for the examination it is suggested that students be required to write mainly on simple, expository subjects that are within the range of their actual experience.

Literature.—Candidates will be expected to have a general elementary knowledge of English literary history from the time of Chaucer, and the examination will be based upon a list of readings which may be obtained from the Registrar's Office.

Two examination papers, one on English Literature and one on English Composition.

FRENCH

Lavisse, Histoire de France, Cours Moyens; A. Daudet, Neuf Contes Choisis (Holt); Jules Verne, Le Tour du Monde (Heath); Dumas, Les Trois Mousquetaires (Heath); Hugo, Gavroche (Oxford).

Translation at Sight from English into French and from French into English.

Two examination papers, one in Texts and grammar, the other in Composition and Sight.

**Oral Examination:* An oral examination is held in centres where this is possible, and students intending to study French at the University are strongly advised to take this examination. The oral examination is given in *addition* to the two papers. Success in the oral examination is recorded on the candidate's certificate. A candidate who fails in the oral examination does not thereby prejudice his chances of obtaining a certificate, but is treated exactly as though he had not attempted the oral test.

GERMAN

(*See footnote on page 431 concerning the Senior B.Sc. or B.Eng. German requirements in special cases.*)

Th. Storm: Immensee (Morgan-Wooley-Heath); G. Keller: Kleider Machen Leute (Heath); F. Bauer: Das tickende Teufelsherz (Crofts).

Translation at Sight from German into English and from English into German.

Two examination papers: one on prescribed texts and one on translation of unseen passages from German into English and from English into German.

GREEK

Homer, Iliad XXII (Pitt Press Series, Camb. Univ. Press); Lysias, pp. 30-92, in Shuckburgh's Lysias, Orationes (Macmillan).

N.B.—Although the above editions are suggested, others may be used.

The examination will include a paper on grammar, composition and sight translation.

Two examination papers.

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*Candidates who wish to take the examination in Oral French at a centre outside Montreal must send in the special early notification mentioned in the footnote on page 405.

HISTORY

General History of Europe from the break-up of the Roman Empire to 1914.

In point of extent the examination will include the history of Europe from the break-up of the Roman Empire to 1914. An advanced outline knowledge of the fifteen centuries involved is assumed, following the general consideration laid down for the study of the briefer period, 1618-1914 in the Junior Certificate requirements. (See pages 419, 420). Candidates are expected to have read extensively selected documentary sources; to this end constant reference to some collection of documentary sources is essential. Regular use of an historical atlas of high standard is likewise essential. Stress should be laid, as far as possible, upon the institutional side of historical change, and upon the importance of institutions, political and otherwise, in the social structure. Candidates should have acquired proficiency in describing and explaining, with the correct use of elementary technical terms, the organization of European society at any given period, and the changes in organization from one period to another.

An elementary institutional knowledge should be shown in the discussion of such topics as: the civilising mission of the Church in the Dark Ages; feudal and manorial society and medieval town life; the City-States of Renaissance Italy with their cultural and economic interests; the emerging of the monarchical-national State; the era of overseas discovery, exploration and settlement; the Protestant revolt and Catholic reaction with their ensuing wars; the regime of unlimited monarchy; the rise of democracy, the Napoleonic period; the influence of 19th century nationalism; and the adjustment of the Balance of Power leading to the outbreak of the World War.

Candidates should read at least one of the works in each of the following groups:—

(1) Einhard's Life of Charles the Great (tr. S. E. Turner, American Book Co., or W. Glaister, Bell & Son); Memoirs of the Crusades (Everyman's Series); Froissart's Chronicles (Everyman's Series).

(2) Machiavelli's Prince (Everyman's Series); Macaulay's Essays on Machiavelli and on Ranke's History of the Popes; Motley's Rise of the Dutch Republic. Part III (Everyman's edition, vol. II).

(3) Macaulay's Essays on the War of the Succession in Spain and Frederick the Great; Carlyle's French Revolution.

(4) A. W. Kinglake's Eothen; G. M. Trevelyan's Garibaldi and the Thousand.

One examination paper.

LATIN

Cicero, Murder at Larinum (Grose-Hodge, Macmillan); A book of Latin Poetry, edited by Joliffe and Breslove (Macmillan), Part 1.

The examination will include a paper on grammar, composition and sight translation.

Two examination papers.

MATHEMATICS

(1) *Algebra:*—Arithmetic, geometric and harmonic progressions, variation, permutations and combinations, binomial theorem, logarithms, number system, theory of quadratic equations, functional notation, graphical representation, miscellaneous series such as the sum of the squares and of the cubes of the natural numbers with easy deductions therefrom, as in Itermediate Algebra by H. Tate, published by Sir Isaac Pitman and Sons, Toronto, or as in similar text-books.

One examination paper.

(2) *Coordinate Geometry:*—The elements of the coordinate geometry of the straight line and circle as in A New Analytic Geometry by J. E. Durrant and H. R. Kingston, published by the Macmillam Co. of Canada, pp. 1-153 inclusive, and pp. 292-296, or as in similar text-books.

One examination paper.

(3) *Trigonometry:*—Measurement of angles, radian measure, trigonometrical ratios or functions of one angle, of two angles and of a multiple angle, relations between the sides and angles of a triangle, solution of triangles using logarithms, easy problems on heights and distances, general values and inverse functions, limits and approximations, as in Elementary Trigonometry by H. S. Hall and S. R. Knight, adapted for use in Canadian Schools, 1940 edition, published by the Macmillam Co. of Canada, Chapters I-XIII, XVII, XVIII and pp. 204-205, or as in similar text-books.

Four figure mathematical tables will be provided.

One examination paper.

MUSIC

(a) *Harmony.*—Scales; Intervals; Transposition of melodies; use of C clefs; barring of certain passages and determining their keys; analysis of chords; chords up to the Dominant 7th and Augmented 6th. This course leads gradually to the writing of simple harmony in 3 or 4 parts. The work covered is that required for the Intermediate Grade Theoretical Examination of the Local Centre Examinations. (See the Announcement of the Faculty of Music.)

Text-books:—MacPherson, Rudiments of Music; Kitson, Elementary Harmony—Part I.

(b) *Form and Analysis.*—Phrase. Sentence. Sequence. Cadence. Accent. Rhythm. Time. Melody. Modulation. Early Dance Forms. Suites—with special consideration of the Minuet and Trio.

Text-books:—MacPherson, Form in Music; McPherson, Studies in Phrasing and Form; R. O. Morris, Structure of Music.

(c) *History.*—Musical origins, Hebrew and Greek influence on early Christian Music. The rise of Music in two or more parts. Secular Music. English, Flemish and Italian composers. The Renaissance, Instrumental Music, (Lute, virginal, viol, etc.), Opera. Beginnings of the Orchestra. Bach and Handel. C. P. E. Bach and sonata form. Haydn. Mozart. The Romantic Movement. Nationalism in Music. Modern Music.

Text-books:—Stanford & Forsyth, A History of Music; Hadow, Music.

(d) *Aural Training.*—Development of a mental appreciation of scale degrees. Recognition of intervals and simple rhythms. Easy dictation. Sight Reading. Listening—to develop quickness of ear, memory, and natural accuracy. Quality of tone.

Two written examination papers, one on Advanced Rudiments and Harmony and one on Form and Analysis and History. In addition there will be a short practical examination on Aural Training.

Physics

One paper will be set upon a general knowledge of the more important principles of elementary physics, the scope being that of Mendenhall, Eve, and Keys, College Physics (Heath) or of any equivalent text-book.

Laboratory Work:—Experiments should be performed equivalent to those outlined in an Elementary College Course in Experimental Physics (Renouf Publishing Co.). The student's notebook setting forth his own laboratory work, certified by the instructor and by the principal of the school, must be forwarded before the examination to the Registrar for inspection.

Spanish

Two papers will be set as in the Junior School Certificate, but the examination will be of a more advanced character.

Prescribed texts:—Baroja's "Zalacaîn el aventurero," (Heath & Co.); A. Palacio Valdés, A carra o cruz, (Macmillan).

CERTIFICATES RECOGNIZED

The following certificates will be considered on their merits towards meeting the University entrance requirements:—

PROVINCE OF QUEBEC
Senior High School Leaving Certificate
Senior Catholic High School Leaving Certificate

PROVINCE OF ONTARIO
Upper School Certificate

PROVINCE OF NOVA SCOTIA
Grade XII Certificate

PROVINCE OF PRINCE EDWARD ISLAND
Third Year Certificate of the Prince of Wales College

PROVINCE OF MANITOBA
Grade XII Certificate

PROVINCES OF ALBERTA AND SASKATCHEWAN
Grade XII Certificate

PROVINCE OF BRITISH COLUMBIA
Senior Matriculation Certificate

NEWFOUNDLAND
Senior Matriculation Certificate

GREAT BRITAIN
The Higher Certificates of:—

The Oxford and Cambridge Schools Examination Board
The Oxford Local Examination Board
The Cambridge Local Examination Board
The Northern Universities Joint Examination Board
The Central Welsh Board
The University of Durham
Bristol University
The University of London

In addition, pupils of recognized British Public and Secondary Schools who have obtained their School Certificates with the requisite credits may be admitted to the Second Year without further examination, if they have satisfactorily completed at school a year's work beyond the School Certificate in the subjects of the McGill Senior School Certificate, and are specially recommended by their headmasters or headmistresses.

McGILL UNIVERSITY

MONTREAL

SCHOLARSHIPS, BURSARIES, PRIZES AND MEDALS

1947 - 1948

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UNIVERSITY SCHOLARS 1946-47

With dates of first award

Arts and Science

Lionel Albert 1946
Anne Beusch 1946
Leo Breitman 1943
Rosalind Cohen 1945
Heidi Eartly 1944
Burril B. Fine 1945
Lionel J. Goldfarb 1943
Hugh Hamilton 1945
David H. Hubel 1943
Myrna Israelovitch 1946
Arthur C. Kerman 1946
Alec W. A. Lane 1942
Mark C. Levine 1946
Judith Lipshitz 1945
Perry Meyer 1945
Donald D. Patterson 1944
Peter Scott 1945
Florence Trotter 1946
Mary Tudor 1945
David H. Wood 1946

Engineering

Richard J. Blanchfield 1945
Robert B. Borts 1945
Donald B. Brown 1946
Peter W. Burgess 1946
James R. Candlish 1946
Howard P. Chamberlain . . . 1946
Douglas Cohoon 1946
Donald H. Evers 1946
Leo P. Gauthier 1944
Geoffrey W. Ince 1943
Richard E. K. Inniss 1945
Kimball J. Keeping 1946
Alan G. Kendall 1940
Seymour Levine 1944
Norman F. Macfarlane 1946
Charlemagne Morency 1945
Howard K. Rae 1944
David A. Selby 1946
Denis W. Stairs 1942
A. Harvie D. Walford 1946

Medicine

Eva Arendt 1946
John C. Beck 1945
James H. Darragh 1941
Ralph I. Druckman 1944
John S. Meyer 1946
Morris Miller 1946
Mary J. Mitham 1944
James Naiman 1941
Louis Rakita 1946
David Rosen 1942
Gerald S. Stober 1944

Architecture

Raymond T. Affleck 1945
Isadore Kalin 1944
John M. Petrucci 1946

SCHOLARSHIPS, BURSARIES, PRIZES, MEDALS AND LOAN FUNDS

I. GENERAL STATEMENT

1. General Regulations

(1) Scholarships are awarded and bursaries and loans granted only to students taking a regular course leading to a degree or diploma.
(2) Scholarships are awarded only if an adequate academic standard is attained.
(3) The annual income of scholarships and bursaries is usually paid in two instalments, one in October and one in February.

2. University Scholarships

(1) Certain scholarships implying exceptionally high achievement are designated "University Scholarships" by Senate.
(2) The winner of a University Scholarship receives the title and status of a "Scholar of the University." Winners of other scholarships do not receive this title or this status.
(3) Each University Scholarship is of a certain maximum amount, but the amount actually awarded depends upon the financial needs of the winner. At present the minimum total value of a University Scholarship is $100.

3. Bursaries

(1) Bursaries are grants in aid of students of good scholarship who need such assistance to enter the University or to complete their course.
(2) The amount of a bursary varies with the need established.
(3) A bursary is renewable upon application and is tenable normally until the student has qualified for his degree or diploma, subject always to the dual condition that the need for it continues and that the standing of the student satisfies the University.
(4) The holder of a scholarship may apply for an additional bursary.
(5) Bursaries are normally paid in two instalments: viz.: one in October and one in February.
(6) Holders of bursaries may be required to undertake a certain amount of work for the University in return for their bursaries. The maximum number of hours any bursary holder may be asked to give is three hours a week throughout the session, or one hour for each dollar of his bursary,—whichever may be smaller.
If a student is able to study while carrying out this bursary obligation as, for example, some library assistants can, the number of hours required may be doubled.

4. Loans

The University has a loan fund of strictly limited amount from which some assistance may be given to particularly deserving students under the following conditions:

(1) Loans are normally made only to students in upper years.

(2) Loans are made only to students of good academic standing who are specially recommended on personal grounds by the Deans of their Faculties.

(3) The loan, if granted, is made on the basis of an agreement between the applicant, or a sponsor of the applicant, and the University. The amount of the loan, the date and manner of its repayment, are made part of the agreement so that the debt may be fully discharged at the earliest possible date.

(4) An applicant for a loan should obtain an application form at the office of his Dean and submit this, when completed, to his Dean for transmission to the Bursar.

5. Interviews

Awards and grants of money are made only after a personal interview unless this requirement is explicitly waived.

6. Applications and Inquiries

Unless otherwise stated below, applications and inquiries should in the first instance be made to the Registrar.

Applications for all entrance scholarships (see page 507), for University bursaries, and for the renewal of bursaries, should be made on forms which may be obtained from the Registrar's Office.

SCHOLARSHIPS OF MEN WHO ENLIST

A student having the status of a University Scholar when he left the University to serve in the armed forces of Canada will resume this status when he returns to the University. This rule will also apply to any other scholarships considered by the Scholarships Committee to confer a definite status upon the holder.

This regulation is concerned only with the status of scholars. It has no financial implication. All questions of financial aid in the form of scholarships or bursaries for returned men are considered in the light of circumstances existing at the time.

Post-Discharge Re-Establishment Order.—Under an Order-in-Council (P.C. 5210) the Dominion Government has established educational grants for men and women who return from active service. The grant includes the full tuition fees and a subsistence allowance and is paid for as many weeks as the recipient was on active service. Further details of these grants are given in the General Information Pamphlet of the University which may be obtained from the Registrar's Office.

II. ENTRANCE SCHOLARSHIPS AND BURSARIES

A. UNIVERSITY ENTRANCE SCHOLARSHIPS AND BURSARIES

(1) University Entrance Scholarships and Bursaries

The University offers not less than four University Entrance Scholarships, each with a maximum value of $300 a year and a minimum total value of $100 (see page 505), together with a limited number of bursaries of smaller value*, tenable either in the Faculty of Arts and Science or in the Faculty of Engineering, and renewable annually provided that the holders continue to merit the award.

Candidates for these awards are required to submit:

(*a*) their complete High School record,

(*b*) their marks or grades in any recognized matriculation or school-leaving examination.

(*c*) confidential letters from their school principals.

Applications must be made on forms which may be obtained from the Registrar's Office. These must be returned not later than 1st July. The school record and other supporting documents should be sent as soon as they are available.

(2) Eligibility

These scholarships and bursaries are intended for pupils of Public and Private Schools in Canada or elsewhere, but the University may, in exceptional cases, accept applications from other candidates.

Men and women are eligible on equal terms.

Applications will normally be accepted only from students who will be under the age of 20 on 1st October, 1948. In exceptional circumstances the University may waive this rule.

(3) The Title of "Scholar"

The winner of a University Scholarship is given the title of "Scholar." His name is printed as such in the Calendar and he has the status of a Scholar within the University.

After entering the University the winner of a University Scholarship is not required to study for honours, and may be permitted to take the general course.

**See also the J. W. McConnell Memorial Scholarships, the Morris W. Wilson Memorial Scholarships, on page 508; Sir William Macdonald Entrance Scholarships and the Sir Edward Beatty Memorial Scholarships on page 509 and the Canadian Pacific Railway Scholarships on page 510.*

(4) Financial Need

The University may require the submission of evidence that the candidate needs the money award to further his educational interests. This evidence will normally include a statement from a parent or guardian. Whenever possible, moreover, the candidate will be interviewed. Financial need will in no case affect the University's decision as to the winner of a scholarship, but may influence the amount of the award.

The amount of the award made to any Scholar will not be published.

In special cases the University may consider an application from the winner of a scholarship for additional assistance.

B. OTHER ENTRANCE SCHOLARSHIPS AND BURSARIES

Unless otherwise stated, applications for these scholarships must be made to the Registrar before 1st July.

Unless otherwise indicated, the word "Examination" is used below to denote the University School Certificate Examination, the Provincial High School Leaving Examination, the Catholic High School Leaving Examinations, or any other standard examination recognized for entrance scholarships.

Applicants who have written examinations other than the McGill School Certificate Examination should send a certified copy of their examination marks to the Registrar's Office as soon as they are published.

J. W. McConnell Memorial Scholarships.—Created and endowed by Mr. J. W. McConnell of the Board of Governors as a memorial to the men and women of the University who gave their lives in the war of 1939-45. The Scholarships are open on equal terms to men and women from any part of Canada and Newfoundland and are tenable in the Faculty of Arts and Science or the Faculty of Engineering. Each scholarship covers the full tuition fee as well as the cost of board and residence in Douglas Hall or the Royal Victoria College for the full period necessary to enable the winner to obtain a Bachelor's degree. The award is made by a Special Committee which takes into consideration the character and the financial circumstances of the applicant as well as the academic record. The holder will normally forfeit the scholarship if he fails to maintain first class standing at the university. Where the student's home is at a considerable distance from Montreal the Board of Governors may, at its discretion, make a contribution towards the cost of travelling. Application forms may be obtained from the Registrar's Office.

Morris W. Wilson Memorial Scholarships.—Established by contributions from a large number of intimate friends and business associates of the late Morris W. Wilson as a memorial to a distinguished citizen who, among his many public activities, rendered distinguished

service to the cause of education, and who, at the time of his death, occupied the office of Chancellor of McGill University. The creation of the fund marks the culmination of a hope long cherished by Mr. Wilson, that of supplying the means whereby young Canadian boys and girls of outstanding ability and promise, but in poor financial circumstances, might obtain the benefits of a university education. It is hoped that this fund may be the means of assisting many deserving young Canadians, particularly those from rural areas, to become better equipped to perform the duties of citizenship and so more effectively to apply their abilities to the general development and welfare of their country.

These Scholarships are open on equal terms to men and women of Canadian parentage, now resident in Canada, and are open only to students who wish to enter the Faculty of Arts and Science, the Faculty of Engineering, or the degree course in Agriculture at Macdonald College. Each Scholarship covers the full tuition fee of the student, as well as the cost of board and residence at Douglas Hall, the Royal Victoria College, or Macdonald College, for the full period necessary to enable the student to obtain his degree. The holder will normally forfeit the Scholarship if, during his course, he fails to maintain first class academic standing. In individual cases, where the student's home is at a considerable distance from Montreal, the Board of Governors may, at its discretion, make a contribution towards the cost of railroad fares. Application forms may be obtained from the Registrar's Office.

THE SIR WILLIAM MACDONALD ENTRANCE SCHOLARSHIPS IN ARTS AND SCIENCE.—Four scholarships of $125 each endowed by Sir William Macdonald and open only to men are awarded under the conditions governing University Entrance Scholarships. (See page 507 for particulars.)

THE SIR EDWARD BEATTY MEMORIAL SCHOLARSHIPS.—Two scholarships, one in Classics (Greek and Latin) and one in Mathematics, of the value of $600 each, were founded by the late Sir Edward Beatty, former Chancellor of the University. The scholarships are payable at the rate of $150 per annum for four years, and are tenable only in the Faculty of Arts and Science. The Scholarships are awarded primarily for ability in either Classics or Mathematics, but school and examination records in other subjects may be taken into account. These awards are made under the conditions governing University Entrance Scholarships (see page 507) and candidates will be required to submit:

(*a*) their complete High School record,

(*b*) their marks or grades in any recognized examination,

(*c*) confidential letters from their school principals.

The winner of a Sir Edward Beatty Memorial Scholarship on entering the University need not necessarily take courses leading to honours in

Classics or in Mathematics, but may enter any course in the Faculty for which he is qualified.

Applications must be made on forms which may be obtained from the Registrar's Office. These must be returned not later than 1st July.

These scholarships are open only to male students, educated in Canadian Schools, whose parents are British or Canadian born.

THE HON. ROBERT JONES BURSARY.—Valued at $120 per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Arts and Science or Engineering." The bursary is not continued if the standing of the holder proves to be unsatisfactory.

ROBERT BRUCE SCHOLARSHIP AND BURSARY.—One entrance scholarship of $100 for one year is available in the Faculty of Arts and Science.

One bursary of $100 is open each year to "young men and women of promising abilities but of straitened circumstances in Arts and Science or Engineering."

For the first twenty-five years students of Scottish extraction will be given the preference (1923-1947).

*THE OTTAWA VALLEY BURSARIES.—These two bursaries are:—

1. The P. S. Ross Bursary, of the value of $100, founded by Dr. P. D. Ross, B.A.Sc., LL.D., in memory of his father, the late Mr. P. S. Ross.
2. The Ottawa Valley Graduates' Society Bursary of the value of $75.

These bursaries are given through the Ottawa Valley Branch of the Graduates' Society and are open only to bona fide residents of the territory of the Ottawa Valley Graduates' Society. The winners are selected by the University from candidates who have written (1) The McGill School Certificate Examination or (2) The Quebec Catholic or Protestant High School Leaving Examination or (3) The Ontario Middle School Examination or (4) The McGill Senior School Certificate or (5) The Ontario Upper School Examination.

Applications must reach the Registrar's Office before 1st September.

CANADIAN PACIFIC RAILWAY SCHOLARSHIPS.—Scholarships covering one year's tuition in the Faculty of Arts and Science and four in Chemical, Civil, Mechanical, or Electrical Engineering, or one year's tuition in the Faculty of Arts and Science and five years in the School of Architecture, or four years' tuition in the Arts courses of the Faculty of Arts and Science, or in the School of Commerce, or four years in the School of Household Science, Macdonald College, are awarded annually by the Canadian Pacific Railway Company. These are open for competition to apprentices and other employees of the Company under twenty-one years of age,

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**Tenable also at Macdonald College.*

as well as to minor sons and daughters of employees. The method of award is that of the University Entrance Scholarships described on page 507, candidates being required to submit:

(*a*) their complete High School record,

(*b*) their marks or grades in any recognized examination,

(*c*) confidential letters from their school principals.

Forms of eligibility and full particulars as to the number of scholarships available, etc., may be obtained from Mr. F. J. Curtis, Superintendent of Pensions and Staff Registrar, Pension Department, C.P.R. Offices, Montreal. Applications, on forms obtainable from the Registrar's Office, accompanied by statements of eligibility from Mr. Curtis, must reach the Registrar's Office before 1st July.

GEORGE HERRICK DUGGAN MEMORIAL SCHOLARSHIPS.—Two scholarships of $750 each have been established as a memorial to the late George Herrick Duggan, D.Sc., LL.D. These are:

(*a*) A scholarship offered annually by the Dominion Engineering Works, Limited, open to all employees of the Dominion Engineering Works, Limited, its wholly owned subsidiary companies, and the Dominion Hoist and Shovel Company, Limited, and to their sons and daughters.

(*b*) A scholarship offered annually by the Dominion Bridge Company, Limited, open to all employees of the Dominion Bridge Company, Limited, and its wholly owned subsidiary companies, and to their sons and daughters.

The purpose of these scholarships is to provide an incentive to eligible candidates to qualify themselves for a university education in engineering or scientific work or allied subjects, and to afford them financial assistance while pursuing university studies. The scholarships are awarded primarily on the intellectual attainment and academic record of the applicants, although the characters of the candidates and other circumstances are also taken into consideration. They may be granted for any period, from one to five years, inclusive. To qualify, the applicant must attain the entrance requirements from time to time established by the University for the course of study applied for, with an average standing of not less than 75%, and thereafter maintain an academic standing satisfactory to the University Scholarships Committee.

The awards are made by the Board of Governors on the basis of a recommendation from a special committee composed of the Chancellor, the Principal and Vice-Chancellor, and the Warden of the Royal Victoria College. Applications should be submitted in the form prescribed for University Entrance Scholarships (see page 507).

THE SIDNEY J. HODGSON SCHOLARSHIPS.—Two scholarships, of approximate values $175 and $150 respectively, were founded by Arthur J. Hodgson, Esq., in memory of his son, Sidney James Hodgson, a student of the First Year in Arts, who was killed in action on September 27th, 1918, while serving in the 66th Battery of the Canadian Field Artillery. They are open to boys and girls of Westmount High School who have been in attendance for at least one year, and are awarded on the result of the June Examinations. The scholarships are tenable in the Faculty of Arts and Science and are awarded to the pupils obtaining the highest percentages in the Junior High School Leaving subjects required for admission to that Faculty. The $175 award is restricted to students who are entering the B.Sc. Course.

THE WESTMOUNT WOMEN'S CLUB SCHOLARSHIP—A scholarship to the value of $100 to be awarded annually by the Westmount Women's Club to a girl student matriculating into McGill University from the Westmount High School.

SCHOLARSHIP GRANTED BY THE GRADUATES' SOCIETY OF THE DISTRICT OF BEDFORD.—This scholarship, tenable in the Arts Division of the Faculty of Arts and Science, has an approximate value of $140 and is awarded annually to a "matriculated student in Arts and Science, proceeding to the degree of B.A., whose parents reside in the District of Bedford and whose candidature has been approved by a committee of the Society."

NARCISSA FARRAND (MRS. N. PETTES) SCHOLARSHIP.—This scholarship, of not less than $300 ($150 for two years), founded by Mr. and Mrs. H. V. Truell, of Sweet Acre, Knowlton, Que., and endowed by them with the sum of $7,000 out of the Narcissa Farrand Fund, is awarded annually to the candidate from the Eastern Townships who obtains the highest marks in the Arts and Science Entrance Examinations in June, and who has had his domicile in the Eastern Townships for five consecutive years immediately preceding the examination.

THE GRACE FAIRLEY TRAFALGAR SCHOLARSHIP.—Founded in 1913 by certain friends and former pupils of the late Miss Grace Fairley, to signalize her long and faithful service to education as head of the Trafalgar Institute. It is of the value of $80, is tenable for one year only, and is awarded annually to the student of Trafalgar Institute who obtains the highest marks in the June School Certificate Examination and enters the Faculty of Arts and Science.

*THE ISABELLA C. MACRAE SCHOLARSHIP.—This scholarship of $150 is open to residents of Maxville, Ont., who have satisfied the requirements for entrance to McGill University. Should there be no successful applicants from this locality for six years, the scholarship will subsequently be open to any resident in Ontario.

**Tenable also at Macdonald College.*

ROYAL VICTORIA COLLEGE ENTRANCE SCHOLARSHIPS (see page 525).

*THE CHRISTIE-STORER CHAPTER SCHOLARSHIP.—A scholarship of the value of $110, endowed by the above-named Chapter of the I.O.D.E. in memory of the men of St. Lambert who fell in the Great War, 1914-18, is awarded annually to the pupil of St. Lambert High School who stands highest in the June High School Leaving Examination each year, provided that the pupil's aggregate is at least 700 marks out of a possible 1,000.

ELIZA REID MEMORIAL SCHOLARSHIP.—Founded by The Montreal Women's Club in memory of the first President of the Club, Mrs. Robert Reid. This scholarship of the value of $150 is tenable for one year, and is awarded each year to a graduate of The Montreal High School for Girls who has completed at least Grades X and XI in this school, and who plans to enter the First Year of McGill University in a degree course.

THE NOTRE DAME DE GRACE WOMEN'S CLUB BURSARY.—This bursary, of $100, is awarded annually to a girl student who has completed Grades X and XI in West Hill High School and is tenable in the First Year of the University.

THE UNITED THEOLOGICAL COLLEGE BURSARIES.—The Board of Governors of the United Theological College offers bursaries to be used towards the payment of fees of undergraduates in Arts and Science who are registered at this College as in training for the study of theology with a view to the Christian Ministry and who have passed with credit the sessional examinations. For particulars, application should be made to the Principal, 3520 University Street, Montreal.

†PRESBYTERIAN COLLEGE SCHOLARSHIPS.—The Board of Management of the Presbyterian College offers a number of scholarships for the payment of fees of undergraduates in Arts and Science who are registered at the Presbyterian College as in training for the study of theology with a view to the Ministry and who have creditably passed the sessional examinations.

UNIVERSITY BURSARIES (see page 514).

*KHAKI UNIVERSITY AND Y.M.C.A. MEMORIAL SCHOLARSHIP FUND see page 515).

*LEONARD FOUNDATION SCHOLARSHIPS (see page 515).

WOMEN ASSOCIATES OF McGILL BURSARY (see page 516).

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†*Not to be awarded until further notice.*
**Tenable also at Macdonald College.*

III. SCHOLARSHIPS, BURSARIES, LOAN FUNDS, MEDALS, AND PRIZES IN THE VARIOUS FACULTIES OF THE UNIVERSITY

A. OPEN TO STUDENTS IN ALL FACULTIES

UNIVERSITY SCHOLARSHIPS.—University Scholarships with a maximum value of $300 a year (see page 505) may be awarded by the University Scholarships Committee to students in any year of any undergraduate faculty. They are awarded for exceptionally distinguished work in the regular University examinations and special applications are not required.

UNIVERSITY BURSARIES.—The University has established a number of bursaries open to students in all faculties and schools. The general regulations governing the award of these are stated on page 505. Application must be made on a special form and forwarded to the Registrar. The forms may be obtained from the Registrar's Office and must be returned before the end of August.

DOMINION-PROVINCIAL LOANS AND BURSARIES.—The Dominion and Provincial Governments jointly offer a number of bursaries and combined bursaries and loans to students in all faculties and schools, excluding theology. The maximum annual grant is $300. To be eligible an applicant must be a British subject with at least five years' residence in the Province of Quebec, must be in good academic standing, under 30 years of age, and in need of financial assistance. For further particulars apply to the Registrar's Office before June 1st. Students coming to McGill from other provinces should inquire from their Provincial Departments of Education whether they are eligible to participate in any comparable scheme.

*B'NAI B'RITH BURSARIES.—Three bursaries of $100 each for the 1947-48 session have been given to the University by the Mount Royal Lodge of B'nai B'rith. These bursaries are open to men and women students in any faculty. Need and scholarship will determine the award. Applications in writing must reach the Registrar before the end of August 1947.

B'NAI B'RITH HILLEL FOUNDATION BURSARY.—This Bursary of $200, established by the B'nai B'rith Hillel Foundation of McGill University, is awarded by the University Scholarships Committee to a deserving student, irrespective of race, colour, or creed, in any faculty, preference being given to a student returning from service in the armed forces.

**These awards are also tenable at Macdonald College.*

*Frederick Southam Ker Bursary.—This bursary was established in 1941 by the late F. N. Southam in memory of his grandson, Frederick Southam Ker, who was killed in action on September 6th, 1940. This bursary of $175 is open on equal terms to men and women of all faculties without respect to religion or race. It is awarded to a student who gives promise of becoming a good citizen but is handicapped in his or her academic course by lack of funds. Financial need, character, and academic record are all taken into account in making the award.

National Council of Jewish Women of Canada, Montreal Section, Bursaries.—The National Council of Jewish Women of Canada, Montreal Section, offers each year a limited number of bursaries. The value of each award is normally $100 and consideration is given to Jewish students. These bursaries are awarded by the Council upon the recommendation of the University Scholarships Committee. Academic standing and financial need are both taken into consideration in making the award. Application should be made on the ordinary University Bursary application form.

*Khaki University and Y.M.C.A. Memorial Scholarship Fund.—The interest on this fund is awarded in scholarships by the Scholarship Committee subject to the following two conditions:

(i) that the scholarships may be held by undergraduates only;

(ii) that the preference is given to sons and daughters of soldiers:

(a) who served in the war of 1914-18;

(b) who served in the war of 1939-45.

*Leonard Foundation Scholarships.—The Leonard Foundation created in 1916 by the late Colonel Reuben Wells Leonard and Mrs. Leonard offers each year a number of scholarships tenable at schools, colleges, and universities in Canada, approved by the Foundation.

The scholarships are open to men and women. A student to be eligible must be "a British subject, of the white race, of the Christian Religion in its Protestant form, and of the full age of fourteen years."

The amount of the award will vary with the need of the winner.

Sons and daughters of the following are given preference in the selection of scholars:

(a) Clergymen, (b) School Teachers, (c) Officers, Non-Commissioned Officers and Men, whether active or retired, of His Majesty's naval, military, or air forces, (d) Graduates of the Royal Military College, (e) Members of the Engineering Institute of Canada, (f) Members of the Mining and Metallurgical Institute of Canada.

These awards are also tenable at Macdonald College.

Men and women returning from active service are also given preference over the non-preferred class.

The University is willing to endorse and forward with its recommendation applications of any candidates who may wish to apply through the University and are approved by it.

Such candidates must make their applications on forms to be obtained from the Registrar's Office and must return these to the Registrar before the 15th February, 1948.

A booklet giving further particulars may be consulted in the Registrar's Office.

Women Associates of McGill Bursary.—A bursary of approximately $125 is available each year to men and women students in any Faculty. Scholarship and need will determine the award. The winner will be chosen by the Executive of the Women Associates of McGill from a list of candidates recommended by the Scholarships Committee and selected from the applicants for University bursaries. (See page 505.)

McGill U. N. T. D. Bursary.—This Bursary, endowed by the University Naval Training Division with an annual value of $30, is awarded by the University Scholarships Committee on the recommendation of the responsible Naval authorities to the U. N. T. D. rating who is considered to be the most deserving applicant. If in any year there is no applicant of high enough quality, the award shall be withheld.

The Temple Emanu-el Sisterhood Bursary.—Established in 1946 in memory of the men who lost their lives in the war of 1939-45, this Bursary, with an annual value of $100, is open to men undergraduates in all faculties and is awarded by the University Scholarships Committee.

Post Discharge Re-Establishment Order.—See page 506.

The Stuart Dunn Memorial Scholarship.—Founded by Major Charles Gwyllym Dunn of Quebec City in memory of his son, Sergeant (Wireless Air Gunner) Stuart Dunn, R.C.A.F., a student at McGill University who died on active service in July, 1941. The Scholarship, value $80 per annum, is to be awarded annually to a male student of the Protestant Christian Faith whose home is outside the Island of Montreal. In making the award the Scholarships Committee takes into consideration: (a) the candidate's scholarship, character, personality, and quality of leadership, (b) his need of financial assistance, and (c) the general usefulness to the community of the special branch of study he proposes to follow.

The Joseph Alfred Jacobson Memorial Scholarship.—This Scholarship, of $200, was established by Mr. and Mrs. Percy N. Jacobson in memory of their son, Flight-Sergeant Joseph Alfred Jacobson, of the Royal Canadian Air Force, who was killed in action on the 28th January,

1942. The Scholarship is open to men and women in any faculty on equal terms. It is given to a student selected by the University Scholarships Committee on the grounds of his personality, academic strength, interest in university sports, and financial need.

THE HINGSTON BURSARY.—This bursary of $80 has been established by Mrs. Stuart Merrett in memory of her son, Pilot Officer F. W. (Billy) Hingston, B.A. 1940, who was killed while flying in a raid on Germany on the 4th of December, 1943. The bursary is open to male undergraduates without restriction as to race or creed or faculty and is awarded by the University Scholarships Committee.

THE CANADIAN ARMY UNIVERSITY COURSE MEMORIAL BURSARY.—This bursary has been established by the Canadian Army University Course Association of McGill University as a memorial to the three of their comrades, Richard F. Gyles, Robert J. Lockhart, and James C. Wheeler, who lost their lives in the World War, 1939-45. It is awarded by the University Scholarships Committee on the recommendation of the Association and preference is given to members of the McGill Canadian Army University Course and to other men who volunteered for active service, and their children.

ROYAL CANADIAN AIR FORCE BENEVOLENT FUND.—Students who served in the Royal Canadian Air Force are eligible for grants from the R.C.A.F. Benevolent Fund. This Fund makes loans or outright gifts to meet special emergencies or acute distress. For further particulars, students should apply to Wing Commander W. S. Phillips, 1499 St. Catherine St. West, Montreal.

PRIZES

CHESTER MACNAGHTEN PRIZES.—Two prizes, one of $50 and the other of $25, are offered annually in a competition for the best piece of creative writing in English submitted by a student of the University. The work submitted may be a story, a play, a poem, an essay, etc. The material should be carefully selected and properly presented. The judges will not read untidy manuscripts or a large number of newspaper clippings. Compositions that have appeared in print are not ineligible provided they have been published since 1st March, 1947. No candidate may submit more than two entries. Compositions must be typed and must reach the Registrar before the 1st March, 1948. Entries that win prizes or honourable mention will be retained by the University and filed in the Redpath Library.

NEIL STEWART PRIZE.—An annual prize of $20 in the Hebrew Language and Literature, established by Mr. Neil Stewart of Vankleek Hill in 1878, is open to students in the University and in the affiliated Theological Colleges.

LOAN FUNDS

Applications for loans should be made through Deans of Faculties or Directors of Schools.

UNIVERSITY LOAN FUND.—A Student Loan Fund has been established by the University to assist needy students in all Faculties. Loans are made normally only to students in upper years (see page 506), with good academic standing.

ONTARIO GRADUATES' SOCIETY LOAN FUND.—This loan fund open to students in all Faculties has been established by the Ontario Branch of the Graduates' Society.

COMMERCIAL SOCIETY LOAN FUND.—For students in Commerce (see page 529).

THE "CLASS OF 1899 FUND".—For students in Engineering (see page 535).

THE GEORGE HENRY FROST FUND.—For students in Engineering (see page 535).

THE WADDELL LOAN FUND.—For students in Engineering (see page 535).

THE CANADIAN INSTITUTE OF MINING AND METALLURGY LOAN FUND.—For students in Engineering (see page 535).

B. OPEN TO STUDENTS IN THE FACULTY OF ARTS AND SCIENCE

For details of Entrance Scholarships see pages 507 and 508.

For scholarships open to women only see page 526.

For Scholarships, Bursaries and Loan Funds open to undergraduates in all Faculties see page 514.

For awards open to Graduate Students see page 542.

GENERAL REGULATIONS IN ARTS AND SCIENCE

1. Only students in regular undergraduate standing are eligible for scholarships.

2. Scholarships will be awarded only if an adequate standard is attained.

3. If in any college year there is not a sufficient number of candidates showing adequate merit, any one or more of the scholarships offered for competition may be given to more deserving candidates in another year.

4. In order to retain his scholarship a successful candidate must proceed regularly with his college course to the satisfaction of the Faculty.

5. The annual income of the scholarships will be paid in two instalments, viz.:—One in October and one in February.

OPEN TO STUDENTS IN ANY YEAR

THE ROY M. WOLVIN SCHOLARSHIPS.—Two Scholarships of $350 each, one tenable by a woman student in the Faculty of Arts and Science and one tenable by a man in the Faculty of Engineering. These Scholarships are awarded by the Faculty Scholarships Committees on the results of the regular sessional examinations. If there are no candidates of sufficient merit in one Faculty both awards may be given to students in the other Faculty.

SECOND YEAR SCHOLARSHIPS

GROUP I.

Six scholarships of $100 each are offered to students advancing from the first to the second year for general proficiency in particular subjects of study. The awards will be made on the basis of the students' complete academic records and on recommendations from the departments in which they have taken their courses.

GROUP II.

The following scholarships are also offered, according to the terms indicated, to students advancing from the first to the second year.

THE CHARLES ALEXANDER SCHOLARSHIP.—Established in 1870 by Charles Alexander, "for the encouragement of the study of Classics and other subjects." Value $90.

THE JANE REDPATH EXHIBITION.—Founded by the late Mrs. Redpath, for the maintenance of an exhibition in Arts and Science. It is restricted to men and is awarded on the result of the sessional examinations of the First Year to the man who makes the highest average on the year's work. Value $200.

THE BARBARA SCOTT SCHOLARSHIP.—Founded by the will of the late Barbara Scott to form an annual scholarship for the student "excelling in Classics in the First Year." Value $80.

THE MARGARET JANE ALLAN SCHOLARSHIP.—This scholarship, of $200, was established in 1929 by a bequest to the Royal Victoria College from Mrs. Agnes W. Allan. It is awarded each year to the woman student in either the B.A. or the B.Sc. courses in Arts and Science who obtains the highest standing in the sessional examinations of the First Year.

SCHOLARSHIPS TENABLE IN THE SECOND, THIRD OR FOURTH YEARS

GROUP III.

SIR WILLIAM MACDONALD SCHOLARSHIPS.—Six scholarships of $125 each are open to men students in the Second, Third, and Fourth Years.

†THE SIR WILLIAM DAWSON SCHOLARSHIP.—Given by the New York Graduates' Society; value $60. Open also to students in Engineering.

THE DR. BARCLAY SCHOLARSHIP. —Awarded in the Classical Department, value $50.

THE REFORD SCHOLARSHIP.—The interest on this fund, amounting to about $200 per annum, will be equally divided each year and placed at the disposal of the Departments of English and Philosophy.

THE HOUSTON SCHOLARSHIP.—Founded by the will of Thomas Houston, to establish a scholarship for French students studying for the ministry of the Presbyterian Church or the United Church of Canada. It is open only to undergraduates in the Faculty of Arts and Science under the above restriction and is awarded on the result of the sessional examinations without regard to year. The value is $100.

PETERSON MEMORIAL SCHOLARSHIP IN CLASSICS.—Founded in memory of Sir William Peterson, Principal of McGill University from 1895 to 1918, by his son, W. G. Peterson, M.A. This scholarship of the total value of $400 ($200 a year for two years) is open to students in any year. The winner is nominated by the Faculty of Arts and Science.

THE MAJOR HIRAM MILLS SCHOLARSHIP.—This scholarship, of the value of $50 is open to students in any of the biological sciences including Anatomy, Bacteriology, Biochemistry, Botany, Genetics, Physiology, and Zoology. It is open to both men and women.

THIRD YEAR SCHOLARSHIPS

GROUP IV.

Eight scholarships of $100 each are offered to students advancing from the second to the third year in both the General Course and the Honours Courses*, on the basis of academic record and recommendations from departments.

*The subjects of study for Honours Courses are as follows:—Bacteriology, Biochemistry, Biological Sciences, Botany, Chemistry, Latin, Greek, Economics, Political Science, English, French, Geology, German, History, Mathematics, Philosophy, Physics, Physiology, Psychology, Sociology, Zoology, and combined courses in two of the above subjects.

GROUP V.

The following scholarships are also offered, according to the terms indicated, to students advancing from the second to the third year.

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†Not to be awarded until further notice.

ROBERT BRUCE SCHOLARSHIP.—From a fund, created by the will of the late Robert Bruce, of Quebec City, one scholarship of annual value of $75, tenable for two years, will be awarded for high standing in the examinations at the end of the Second Year.

THE CHARLES WILLIAM SNYDER MEMORIAL SCHOLARSHIP.—This scholarship, founded by L. P. Snyder, Esq., in memory of his son, Charles William Snyder, a student of First Year Arts, who was killed in the Battle of Sanctuary Wood on June 2nd, 1916, is of the value of $250. It is awarded annually on the results of the examinations in English and Economics of the Second Year, and is subject to the condition that the holder take an Honours Course in English, with Economics as a minor subject in his Third Year, or the Honours Course in English and Economics. It is open to male students in the Faculty of Arts and Science professing the Christian religion.

THE ALEXANDER MACKENZIE SCHOLARSHIPS.—One scholarship of the value of $215 is awarded annually on the results of the honours examinations of the Second Year in Political Science and is open only to a student who has completed the work of that year. Tenure of the scholarship is conditional upon the holder's taking the honours work in Political Science of the Third Year. (See also Group VI.)

THE HANNAH WILLARD LYMAN MEMORIAL SCHOLARSHIP of the value of $80 is awarded annually to a woman student of the third or fourth year.

DELTA PHI EPSILON SORORITY BURSARY.—This bursary, founded by the Delta Phi Epsilon Sorority in memory of Edith Silver, is of the value of $100 and is open to a woman student entering the Third Year of the Faculty of Arts and Science.

THE KNIGHTS OF PYTHIAS SCHOLARSHIP.—This scholarship, of $300, is awarded annually to a student in the Social Sciences. It is open on equal terms to men and women. The winner must be a resident of the Island of Montreal, and entering the Third Year of the B. A. course. The award may be renewed for a further year if the holder proves to be worthy of such recognition.

For other third year scholarships see also Group III.

FOURTH YEAR SCHOLARSHIPS

GROUP VI.

Students advancing to the Fourth Year who have distinguished themselves in the general course or in honours courses may be recommended to Senate by the Faculty for the renewal of a scholarship previously held or for the award of a University Scholarship.

THE JAMES DARLING MCCALL SCHOLARSHIP.—This scholarship was founded by J. T. McCall, Esq., in memory of his son, James D. McCall,

B.Sc., who was drowned shortly after the war of 1914-18, in which he served with distinction. This scholarship is awarded each year to a male student of the Fourth Year professing the Christian religion, who is taking honours in English or in Philosophy or in both these subjects. It is of the value of $250.

THE ALEXANDER MACKENZIE SCHOLARSHIP.—One scholarship of the value of $215, is awarded annually on the results of the honours examinations of the Third Year in Political Science and is open only to a student who has completed the work of that year. Tenure of the scholarship is conditional upon the holder's taking the honours work in Political Science of the Fourth Year (see also Group V).

THE ANGUS MCCOY SMITH SCHOLARSHIP.—This scholarship, founded by Mr. and Mrs. Allan L. Smith in memory of their son, Angus McCoy Smith, a graduate of the University, who was killed in the Second World War, is awarded annually to a Protestant male student of the Faculty of Arts and Science who is entering the Fourth Year. The award is based on academic record, character, financial need, and general promise.

For other fourth year scholarships see Group III and Group V.

MEDALS IN ARTS AND SCIENCE

The following medals are awarded to the graduating students who stand highest in the First Class Honours List of the subjects named, provided the Faculty so recommends to Senate:—

The Henry Chapman Gold Medal, for Classical Languages and Literature.

The Prince of Wales Gold Medal, for Mental and Moral Philosophy.

The Anne Molson Gold Medal, for Mathematics and Natural Philosophy.

The Shakspere Gold Medal, for English Language and Literature.

The Logan Gold Medal, for Geology, Mineralogy and Palaeontology.

The Major Hiram Mills Gold Medal, for Biology.

The Governor-General's Gold Medal, for Modern Languages and Literature.

The Governor-General's Silver Medal awarded to the student standing highest among those graduating "with great distinction" in the general course.

The Lieutenant-Governor's Silver Medal awarded to the student who stands second among those graduating "with great distinction" in the general course.

The Allen Oliver Gold Medal, for Economics and Political Science (founded by Mrs. Frank Oliver, in memory of her son, the late Allen Oliver, B.A., M.C., Lieutenant, 26th Battery, C.F.A., who was killed in action at the Somme, on November 18th, 1916).

The Lieutenant-Governor's Silver Medal, for History.

In addition to the above, certain medals are offered annually by the Alliance Française, at the discretion of the Department of French Language and Literature.

If there is no candidate for any medal, or if none of the candidates fulfils the required conditions, the medal is withheld, and the proceeds of its endowment for the year may be devoted to prizes in the subject for which it was intended.

PRIZES IN ARTS AND SCIENCE

Annie Macintosh Prize.—The endowment of this prize was contributed by friends and pupils of the late Miss Annie Macintosh and by a special gift of the late Miss I. G. Macintosh. The present value of the prize is $50. It is offered as a prize or prizes to students of the Royal Victoria College in such subject or for such work as the Faculty may determine.

Penhallow Prize in Botany.—An annual prize of $25, endowed by the Arts Undergraduate Society in 1911, is awarded to the graduating student whose complete record shows the highest first class standing in Botany. At least 4 full courses in the subject must have been taken, and Honours students will receive preference.

Henry Chapman Prize.—A book prize of the value of $20 is given in modern languages (excluding English), or in Hebrew.

The Chester Macnaghten Prizes (see page 517).

The Cherry Prize.—This prize of books, value $40, founded by Wilbur H. Cherry, Arts 1907, and Anna Cherry, Arts 1918, in memory of their father, William Cherry, Med. 1869, and of their brother, William McFie Cherry, Arts 1911, is awarded annually by the Department of Economics and Political Science to the student who is, in the opinion of the Department, deserving of such recognition.

Peterson Memorial Prize in Literature.—This prize, value $50, founded by W. G. Peterson, M.A., in memory of his father, Sir William Peterson, Principal of McGill University from 1895-1918, is awarded to the undergraduate, or graduate, student who in addition to having achieved distinction in English Literature has given evidence of creative literary ability.

THE DORA FORSYTH PRIZE.—An annual prize of $50 bequeathed by the late Miss Jeanie Forsyth for English Literature. This prize is open to women students only and is awarded to a candidate recommended by the Department of English Language and Literature and approved by the Faculty of Arts and Science.

FANTHAM MEMORIAL PRIZE IN ZOOLOGY.—This prize of $50, endowed by Dr. Annie Fantham in memory of her husband, Professor H. B. Fantham, late Strathcona Professor of Zoology and Head of the Department, is awarded annually to the graduating student who has taken the full honours course in Zoology and who ranks highest of those obtaining first class honours in this subject. The prize is open to men and women.

MADELENE HODGSON PRIZE IN HISTORY.—An annual prize of $15 endowed by the Imperial Order Daughters of the Empire in recognition of the work done by Mrs. W. C. Hodgson as President of the Provincial Chapter of Quebec. The prize is awarded to the Third Year Honours student in History who in the opinion of the Department of History has done the most outstanding work in this subject.

HISTORICAL SOCIETY'S PRIZE.—This prize is endowed by a fund belonging to the Historical Society. The award is made jointly by the Executive of the Historical Society and the Chairman of the Department of History to the male undergraduate in the First Year who has shown the greatest promise in History and intends to read for Honours in this subject, and is awarded in books.

ANNE MOLSON PRIZE IN CHEMISTRY.—A prize of $100 awarded annually to the student with the highest record among those graduating with First Class Honours in Chemistry.

PRIZES IN BOTANY AND ZOOLOGY.—A sum of $50 is awarded annually as a prize or prizes in the Department of Botany and Zoology for original summer collections. Candidates should consult these Departments concerning the collections to be made.

ORNITHOLOGY PRIZE.—A prize of $10 given by Mrs. Christine L. Henderson, to be spent by the winner upon books of his choice relating to natural history. At present this prize is awarded to the student standing highest in the first class in the examination in Advanced Vertebrate Zoology.

ETHEL WALKEM JOSEPH PRIZE.—The Wolfe and Montcalm Chapter of the Imperial Order Daughters of the Empire has endowed an annual prize of $20 in the Department of Education as a tribute to Mrs. Henry Joseph, Regent of the Chapter.

MARION MCCALL DALY PRIZE.—A prize of $100 awarded each year to a woman student who has completed the second year and is entering the third year of the Faculty of Arts and Science or the Faculty of Engineering (including Architecture) at the University. The award is made by the University Scholarships Committee in consultation with the President of the McGill Women's Union and another senior woman student chosen by the Committee. In making the award the Committee takes into account (a) the candidate's promise of making a definite contribution to Canadian life, (b) the financial need of the candidate, and (c) the academic record of the candidate.

For awards open to graduates see page 542.

BURSARIES

LOGAN BURSARIES.—A part of the interest of the Logan Medal Fund, amounting to about $180 a year, may be awarded upon the recommendation of the Department of Geological Sciences to undergraduate or graduate students in that department.

Applications should be made in writing to the Chairman of the Department of Geological Sciences before the 31st August.

C. OPEN TO STUDENTS OF THE ROYAL VICTORIA COLLEGE

ENTRANCE SCHOLARSHIPS

ROYAL VICTORIA COLLEGE ENTRANCE SCHOLARSHIPS.—Two scholarships, open to women only and conditional on residence in the Royal Victoria College, are offered each year, one of the value of $200 and one of $100. These are awarded on the result of the McGill School Certificate or Senior School Certificate or other approved examinations.

J. W. MCCONNELL MEMORIAL SCHOLARSHIPS.—See page 508.

MORRIS W. WILSON MEMORIAL SCHOLARSHIPS.—See page 508.

UNIVERSITY ENTRANCE SCHOLARSHIPS AND BURSARIES.—See pages 507-508.

THE HON. ROBERT JONES BURSARY.—See page 510.

ROBERT BRUCE SCHOLARSHIP AND BURSARY.—See page 510.

THE OTTAWA VALLEY BURSARIES.—See page 510.

CANADIAN PACIFIC RAILWAY SCHOLARSHIPS.—See page 510.

SCHOLARSHIP GRANTED BY THE GRADUATES' SOCIETY OF THE DISTRICT OF BEDFORD.—See page 512.

NARCISSA FARRAND SCHOLARSHIP.—See page 512.

THE GRACE FAIRLEY TRAFALGAR SCHOLARSHIP.—See page 512.

THE ISABELLA C. MACRAE SCHOLARSHIP.—See page 512.

THE CHRISTIE-STORER CHAPTER SCHOLARSHIP.—See page 513.

THE SIDNEY J. HODGSON SCHOLARSHIPS.—See page 512.

All scholarships and bursaries listed on pages 514-517.

ADDITIONAL SCHOLARSHIPS AND BURSARIES

For a statement of the scholarships, bursaries, and loan funds open to women students of the University, see pages 507, 508, 514 to 521.

RESIDENT BURSARIES.—In addition to these, four resident bursaries in all, of the value of $200 each, are available for outstanding students of the second, third and fourth years who are nominated by the Warden. In exceptional cases one or more of these may be awarded to first year students.

ALPHA OMICRON PI BURSARY.—A Bursary of $50 is given by the Alpha Omicron Pi Mothers' Club for a woman student, resident of Royal Victoria College or non-resident. The award is made on the recommendation of the Warden of the Royal Victoria College to a candidate with good academic standing and financial need.

SPECIAL SCHOLARSHIPS ADMINISTERED BY A COMMITTEE OF THE ALUMNAE SOCIETY

ETHEL HURLBATT SCHOLARSHIP.—A scholarship of the annual value of $100 to be known as the Ethel Hurlbatt Scholarship, in memory of the late Dr. Ethel Hurlbatt, a former Warden, has been founded by the Alumnae Society and will be awarded annually to a distinguished student of the 2nd, 3rd, or 4th year.

SUSAN CAMERON VAUGHAN SCHOLARSHIP.—A scholarship of the annual value of $100 to be known as the Susan Cameron Vaughan Scholarship in honour of Mrs. Walter Vaughan, retired Warden, has been founded by the Alumnae Society and will be awarded annually to a distinguished student of the 2nd, 3rd, or 4th year.

HELEN R. Y. REID SCHOLARSHIP.—A scholarship of the annual value of $100 made possible by a legacy from the estate of the late Dr. Helen R. Y. Reid, to be known as the Helen R. Y. Reid Scholarship will be awarded annually to a distinguished student of the 2nd, 3rd, or 4th year.

GEORGINA HUNTER SCHOLARSHIP.—This scholarship of the annual value of $100 to be known as the Georgina Hunter Scholarship in memory of the late Georgina Hunter, a member of the first graduating class of women at McGill University, the first President of the Alumnae Society, and a former Principal of the High School for Girls, Montreal, has been founded by the Alumnae Society and will be awarded annually to a distinguished student of the 2nd, 3rd, or 4th year.

THE LOCAL COUNCIL OF JEWISH WOMEN OF MONTREAL offers an annual scholarship of $100 to be given to a deserving student of the College in need of this financial assistance, the award to be made by the Scholarship Committee of the Alumnae Society.

THE B'NAI B'RITH MOUNT ROYAL WOMEN'S AUXILIARY No. 257 offers an annual scholarship of $100 to be given to a deserving student of the college in need of this financial assistance, the award to be made by the Scholarship Committee of the Alumnae Society.

ALUMNAE SOCIETY BURSARIES AND LOANS.—In addition to the above, a limited number of bursaries and loans are offered by the Alumnae Society through its Scholarship Committee.

Students interested in bursaries and loans should consult the Warden before the opening of the session.

PRIZES

MARION MCCALL DALY PRIZE.—A prize of $100 awarded each year to a woman student who has completed the second year and is entering the third year of the Faculty of Arts and Science or the Faculty of Engineering (including Architecture) at the University. The award is made by the University Scholarships Committee in consultation with the President of the McGill Women's Union and another senior woman student chosen by the Committee. In making the award the Committee takes into account (a) the candidate's promise of making a definite contribution to Canadian life, (b) the financial need of the candidate, and (c) the academic record of the candidate.

EDMUND HENRY BOTTERELL PRIZE.—This prize, the annual value of which is the income from a capital sum of $4,000, was established by a legacy from the late Mrs. Florence A. Redpath. Under the terms of endowment, it is to be known as the "Edmund Henry Botterell Prize" and is to be awarded on the recommendation of the Warden to a first year student registered in the Royal Victoria College. For the present the award will be made to a student whose academic interests and record combined with personal qualities indicate marked promise.

ARTS AND SCIENCE

ANNIE MACINTOSH PRIZE.—The endowment of this prize was contributed by friends and pupils of the late Miss Annie Macintosh and by a special gift of the late Miss I. G. Macintosh. The present value of the prize is $50. It is offered as a prize or prizes to students of the Royal Victoria College in such subject or for such work as the Faculty may determine.

THE DORA FORSYTH PRIZE.—An annual prize of $50 bequeathed by the late Miss Jeanie Forsyth for English Literature. This prize is open to women students only and is awarded to a candidate recommended by the Department of English Language and Literature and approved by the Faculty of Arts and Science.

See also list of prizes in Arts, Science, Commerce, Architecture.

D. OPEN TO STUDENTS IN THE SCHOOL OF COMMERCE

For scholarships and bursaries open to undergraduates in all Faculties see page 514.

SCHOLARSHIPS, BURSARIES, AND PRIZES

THE EDWIN WATERHOUSE SCHOLARSHIP.—The Edwin Waterhouse Scholarship, of the value of $250, donated by Price, Waterhouse and Company, is awarded annually by a committee consisting of the Principal, the Director of the School of Commerce, and the Chairman of the Department of Economics and Political Science, to that student in the School of Commerce, who, having obtained a first class average in the annual examinations at the end of the Third Year of his course, is considered most deserving of financial assistance. Commerce students in the Third Year who wish to be considered should make written application to the Director of the School of Commerce not later than April 15th.

ISAAC BRUCK SCHOLARSHIPS.—The Bruck Silk Mills presents $500 annually to the University to provide two scholarships in the School of Commerce. The scholarships may be held by students in the Second, Third or Fourth Year of the School, and are awarded annually without respect to race or sex by The Faculty of Arts and Science upon the results of the sessional examinations in the School.

THE SYDNEY S. PAPPELBAUM BURSARY.—A Bursary in memory of the late Captain Sydney S. Pappelbaum, B. Com., 1942, to be awarded to a student in Commerce at the end of his Second Year, and about to enter the Third Year, with no restriction as to race, creed or colour. It is awarded by the Advisory Committee of the School of Commerce. Students who wish to be considered should make application to the Director of the School of Commerce, not later than April 15th.

THE F. W. SHARP PRIZE IN ACCOUNTANCY AND MATHEMATICS.—This will be awarded at the end of the Fourth Year to the best student in Accountancy, Business Organization and Mathematics. Value $50.

JOSEPH H. JACOBS PRIZE.—The sum of $650 was received from the executors of the estate of the late Joseph H. Jacobs. The annual revenue from this bequest, which is approximately $25, will be awarded as a prize for Second Year Accountancy.

THE PROFESSOR R. R. THOMPSON MEMORIAL PRIZE.—Established in honour of the late Professor R. R. Thompson by the Class of Commerce 1925, this Prize of $50 is awarded annually to the Third Year student in Commerce with the highest standing in examinations in Accounting and Auditing. It is awarded by the Scholarships Committee of the Faculty

of Arts and Science on the recommendation of the Director of the School of Commerce.

CHESTER MACNAGHTEN PRIZES (see page 517).

MEDALS

THE SIR EDWARD BEATTY MEMORIAL MEDAL.—A gold medal endowed by the late Sir Edward Beatty, former Chancellor of the University, is offered to the student in the School of Commerce who attains the highest distinction in Economics. At present, it is awarded on the basis of the aggregate marks for the three full year courses, Elements of Political Economy, Money and Banking, and Economic Distribution.

LIEUTENANT-GOVERNOR'S MEDALS.—A silver medal and a bronze medal have been offered to the School of Commerce by His Honour the Lieutenant-Governor of the Province of Quebec, the silver medal for the student with the highest average throughout the last three years of study; the bronze medal for the one who has the second highest average throughout the last three years of study.

LOAN FUNDS

COMMERCIAL SOCIETY LOAN FUND.—A fund has been established by the Commercial Society to be known as "The Commercial Society Loan Fund," for the purpose of aiding each year one or more students of the School of Commerce who are entering their fourth year, to complete their course. Loans from this Fund are repayable within two years after graduation. Application should be made to the Director of the School of Commerce.

OTHER LOAN FUNDS (see page 518).

E. OPEN TO STUDENTS IN THE FACULTY OF ENGINEERING

(Including Architecture)

For scholarships and bursaries open to undergraduates in all Faculties see page 514.

ENTRANCE SCHOLARSHIPS

WORKMAN STUDENTSHIP.—The University accepts one nomination each year for a full course in Mechanical Engineering from the executors of the estate of the late Thomas Workman, provided the student nominated

(1) is a resident of Quebec,

(2) has obtained in the examinations qualifying for admission to the University the standard required by the Scholarships Committee for University Scholarships or Bursaries.

For other entrance scholarships see pages 507 and 508.

AWARDED ON THE RESULTS OF THE SESSIONAL EXAMINATIONS OR FOR SPECIAL THESES

British Association Second Year Prizes.—Two British Association prizes of $40 and $20, at the end of the Second Year, to the students obtaining the highest, and the second highest aggregate marks, respectively, in the sessional examinations in Calculus and Mechanics of the Second Year.

Scott Exhibition.—A Scott exhibition of $35, founded by the Caledonian Society of Montreal, in commemoration of the centenary of Sir Walter Scott, and a British Association prize of $20, to the students obtaining the highest, and the second highest aggregate marks, respectively, in the sessional examinations in Mathematics, Mechanics, Descriptive Geometry, and Physics of the First Year.

Tighe Prize.—A prize of $50, presented by Mr. James L. Tighe, B.A.Sc., for research work in Hydraulics.

Anglin-Norcross Prize.—A prize of $25, presented by the Anglin-Norcross Corporation Limited, to the student obtaining the highest marks in Architectural Drawing in the School of Architecture in the First Year.

Anglin-Norcross Prize.—A prize of $25, presented by the Anglin-Norcross Corporation Limited, to the student obtaining the highest marks in the Third Year course in Design of Buildings in the School of Architecture.

The Louis Robertson Prize.—Founded by Mr. and Mrs. John A. Robertson, in memory of their son, John Louis Armour Robertson, who was killed in the Great War on July 18th, 1916, to be awarded in the form of books to the undergraduate student who ranks highest in Design in the Final Year of the School of Architecture.

Philip J. Turner Prize.—A prize of $50 presented by Mr. A. B. Darbyson, a graduate in the School of Architecture of the Class of 1915, to the student obtaining the highest marks in Building Construction of the Second Year course in Architecture.

The following prizes are offered for the best summer essays:—

Hersey Prize.—To students in Metallurgical Engineering, a prize of $25, presented by Milton L. Hersey, Esq., D.Sc.

Engineering Institute of Canada Prizes.—The Engineering Institute of Canada offers each year a prize of books or instruments to the value of $25 for the best paper in any branch of engineering received from an English-speaking Student or Junior of the Institute in the Province of Quebec. This prize is known as the Phelps Johnson Prize; another of the same value, the Ernest Marceau Prize, is awarded for the best paper

in French. Similar prizes are open to those located in other provinces. The successful papers become part of the literature of the Institute and place the authors in prominent touch with the engineering profession. Further particulars may be obtained from L. Austin Wright, General Secretary, 2050 Mansfield Street, Montreal.

ENGINEERING INSTITUTE OF CANADA PRIZE.—The Engineering Institute of Canada also offers each year a prize of $25 to the student of the Third Year whose standing, considered in combination with his activities in student engineering organizations, is, in the opinion of the Faculty, most meritorious.

CANADIAN INSTITUTE OF MINING AND METALLURGY PRIZES.—Three prizes, one of $25 and the President's gold medal, and two of $25 each, are offered annually for the best papers submitted by student members to the Canadian Institute of Mining and Metallurgy.

UNDERGRADUATES SOCIETY'S PRIZES.—The sum of $50 has been voted by the Undergraduates Society of the Faculty of Engineering, to be given as prizes for the best summer essays submitted by students in the third and fourth years. $25 is awarded for the best essay, $15 for the second and $10 for the third.

In addition, the Society has voted the sum of $25 to provide prizes for summer essays submitted by students entering the second year, to be divided into a First Prize of $15 and a Second Prize of $10.

The following regulations apply: (1) the Faculty will correct and grade the summer essays in the usual way, (2) when the classification is completed a list of those essays worthy of consideration by the Prize Committee will be posted, (3) essays awarded prizes will "ipso facto" become the property of the Engineering Undergraduate's Society and will be bound by the Society and kept in the Engineering Library, and (4) a notice, to accompany the list of essays considered, will be posted stating that among the students considered those wishing to compete for the prizes should signify their intention to do so by writing to the Faculty, mentioning clearly that they accept condition No. 3.

THE JAMES DICKIE HALL PRIZE.—A prize of $100 granted annually by Oliver Hall in memory of his son, James Dickie Hall, lost near Cannes in June, 1944, in an air battle between four R. C. A. F. and more than ninety enemy Planes. This prize is open to students entering the third or the fourth year in Mining or Metallurgy and is awarded for the best summer essay.

THE ROY M. WOLVIN SCHOLARSHIPS.—Two Scholarships of $350 each, one tenable by a woman student in the Faculty of Arts and Science and one tenable by a man in the Faculty of Engineering. These Scholarships are awarded by the Faculty Scholarships Committees on the results of the regular sessional examinations. If there are no candidates of sufficient

merit in one Faculty both awards may be given to students in the other Faculty.

†Sir William Dawson Scholarship.—A Sir William Dawson Scholarship, given by the New York Graduates' Society; value $60; open also to students in Arts and Science (see page 520).

Society of Chemical Industry Prize.—A prize of $50 is offered by the Montreal Section of the Society of Chemical Industry (Canadian Section) for an original essay on a chemical subject. Undergraduate students, other than those in their final year, are eligible to present papers. Further particulars may be obtained from the Registrar's Office.

American Society of Metals Prize.—A prize in selected metallurgical books to the value of $10 is offered, by the Montreal Chapter of the American Society for Metals, to the student graduating in Metallurgical Engineering who obtains the highest mark, provided he obtains honours standing in the subjects of Metallography and Thesis combined.

The Robert Forsyth Prize in Civil Engineering.—Under the will of the late Miss Jeanie Forsyth a prize of $40 is awarded each year, if the examiners so recommend, to a "worthy and needy" student of the graduating class who secures high standing in the subjects of Theory of Structures and Strength of Materials.

Institute of Radio Engineers Prizes.—Each year two prizes will be offered to students of McGill and other approved universities for the best papers on radio engineering or some closely allied subject. The first prize is $25 and the second prize is a student membership in the Institute of Radio Engineers for a period of two years. Essays, which may be written in French or English, must reach the office of the Dean of the Faculty of Engineering not later than the 30th of November 1947.

Chester Macnaghten Prizes (see page 517).

AWARDED AT THE DISCRETION OF THE FACULTY

The Hon. Robert Jones Bursary.—Of the value of $120 per annum, "is granted from time to time to some poor student for the full term of study in the Faculty of Arts and Science or Engineering."

The bursary is continued until the holder graduates if his academic standing is entirely satisfactory. Applications should be made to the Dean of the Faculty.

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†Not to be awarded until further notice.

THE BAYLIS SCHOLARSHIP.—Founded in memory of Mr. and Mrs. James Baylis, of Montreal, and having an annual value of $100, is awarded to some student entering the Second Year who is in need of financial assistance. The scholarship will be continued during the Third and Fourth Years, if the standing of the student continues to be satisfactory.

Application should be made through the Dean of the Faculty.

DOUGLAS TUTORIAL BURSARIES.—The late Dr. James Douglas, who was a member of the Board of Governors, provided for twelve or more tutorial bursaries of approximately $75 per annum in the Faculty of Engineering. In assigning these, the circumstances of the applicants as well as their academic standing are considered. These bursaries carry the obligation of giving tutorial instruction equivalent to one evening a week Students in the Third and Fourth Years of Engineering are eligible. Written application should be made to the Dean's Office on or before May 1st.

H. M. MACKAY MEMORIAL SCHOLARSHIP.—This scholarship will be awarded to a student of British citizenship who has completed the First Year in Engineering and intends to enter the Second Year in September, 1948. A committee appointed by the Faculty selects the scholar, having in mind the results of the First Year sessional examinations, general character, industry, and other qualities desirable in an engineer. The value of the scholarship is $135. Payment is withheld if the scholar's progress is unsatisfactory. If no candidate of sufficient merit applies, the scholarship is not awarded. Written applications should be made to the Dean's Office on or before May 1st.

THE JENKINS BROS., LTD., SCHOLARSHIP.—Supported by Messrs. Jenkins Bros., Ltd., and having an annual value of $200, is open to all Engineering students entering the Fourth Year in September 1948 and is awarded on the basis of academic standing and personality. Written application should be made to the Dean's office on or before May 1st.

THE NEVIL NORTON EVANS SCHOLARSHIP.—This Scholarship of $90 a year was established in 1937 by graduates of the Faculty of Applied Science (Engineering), and is open to students of the Faculty of Engineering who show outstanding ability in Chemistry. The award will be made by the Faculty of Engineering and the Department of Chemistry. No application is required.

THE HOBBS GLASS COMPANY SCHOLARSHIP.—This scholarship of the value of one year's tuition fee in the School of Architecture is awarded to a student of the Fourth Year who has submitted the best solution of a design problem in which glass is a major item. The judges are a committee of staff of the School of Architecture or practising architects.

BURSARIES

THE ANGLIN BURSARY.—Of the value of $200, is given annually by Mrs. Anglin in memory of her husband, the late Mr. J. P. Anglin, B.Sc., 1906.

PROVINCE OF QUEBEC MINING BURSARIES.—Each year the Department of Mines of the Province of Quebec offers a number of bursaries to enable students to take a university course in mining engineering, metallurgy, or geology. The maximum annual value of these scholarships is $650 for a student who has to live away from home in order to attend the University, and $325 for a student who can live at home. Candidates must be Canadians and have lived for at least five years in the Province of Quebec. Further information may be obtained from the Registrar's Office.

BURSARY OF THE CORPORATION OF PROFESSIONAL ENGINEERS.—The Corporation of Professional Engineers presents annually a bursary of the value of $100, tenable by a student in the third or fourth year of the Faculty of Engineering and awarded by the Faculty.

For information concerning bursaries open to undergraduates in all Faculties see page 514.

MEDALS

BRITISH ASSOCIATION MEDAL.—This medal is open for competition to students of the graduating class in each of the Engineering courses, and, if the examiners so recommend, will be awarded to the student taking the highest position in the final examinations. The British Association Medals were founded by the British Association for the Advancement of Science in commemoration of its meeting held in Montreal in 1884.

CANADIAN INSTITUTE OF MINING AND METALLURGY MEDAL.—A gold medal and two prizes are offered by the Canadian Institute of Mining and Metallurgy. For further particulars, see page 531.

THE LIEUTENANT-GOVERNOR'S SILVER MEDAL.—Awarded to the student ranking highest in the Graduating Class in Architecture, provided his work is considered of sufficient merit.

THE LIEUTENANT-GOVERNOR'S BRONZE MEDAL.—Awarded to the student obtaining the second place in the Graduating Class in Architecture, provided his work is considered of sufficient merit.

THE ROYAL ARCHITECTURAL INSTITUTE OF CANADA MEDAL.—A medal is offered annually to the student who has completed the entire course at a recognized School of Architecture, who has obtained high marks throughout his course, and who gives promise of being an architect of distinction after graduation. British subjects only are eligible for this award.

LOAN FUNDS

THE "CLASS OF 1899 FUND".—Established by the "Applied Science" Class of 1899, to aid each year one or more students who, upon the completion of their Second Year, require assistance to enable them to finish their course. Loans from this fund are repayable after graduation. Applications should be made to the Dean.

THE GEORGE HENRY FROST FUND.—Founded by the late G. H. Frost, B.Sc. '60, to aid students who, when commencing the work of the second or a subsequent year in the Faculty of Engineering, require financial assistance. In making loans from this fund the academic standing of the applicants is considered. Applications should be made to the Dean.

THE WADDELL LOAN FUND.—Founded by the late J. B. Waddell, Esq. Loans are made under the same conditions as apply to the George Henry Frost Fund, except that the benefits are available to graduate students as well as to undergraduates. Applications should be made to the Dean.

THE CANADIAN INSTITUTE OF MINING AND METALLURGY LOAN FUND.—Founded by the Montreal Women's Auxiliary of that organization for the assistance of Engineering students in Mining, Metallurgy, Geology and allied subjects. Applications should be made to the Dean.

THE BENNETT EDUCATIONAL FUND.—Students in Engineering are eligible for loans from the Bennett Educational Fund of the Engineering Institute of Canada. Application forms may be obtained from the Office of the Dean. Loans from this fund are not generally granted to students in the First Year.

OTHER LOAN FUNDS (see page 518).

For awards open to Graduate Students see pages 542 and 546.

F. OPEN TO STUDENTS IN THE FACULTY OF MEDICINE

For scholarships, bursaries, and loan funds open to undergraduates in all faculties see page 514.

MEDALS

THE HOLMES GOLD MEDAL, founded by the Medical Faculty in the year 1865, as a memorial of the late Andrew Holmes, M.D., LL.D., one time Dean of the Faculty of Medicine, is awarded to the student graduating with the highest aggregate number of marks in the different branches comprised in the medical curriculum.

The student who wins the Holmes Medal has the option of exchanging it for a bronze and the money equivalent of the gold medal.

THE WOOD GOLD MEDAL, founded by Casey A. Wood, M.D., LL.D., awarded to the student graduating with the highest aggregate number of marks in the clinical examinations of the Final Year. The winner of the Holmes Medal is ineligible for this medal.

THE SUTHERLAND GOLD MEDAL, founded in 1878 by the late Mrs. Sutherland, in memory of her husband, William Sutherland, M.D., formerly Professor of Chemistry in this Faculty, is awarded for the best examination in Biochemistry, together with a creditable examination in the primary branches.

THE LIEUTENANT-GOVERNOR'S SILVER MEDAL, to be awarded to the student of the final year who, in the opinion of the Chairman of the Department of Public Health and Preventive Medicine, is most proficient in that subject.

THE LIEUTENANT-GOVERNOR'S BRONZE MEDAL, to be awarded to the student who obtains the highest standing in the final examination in Physiology.

THE WALTER CHIPMAN GOLD MEDAL, founded by the late Max Strean in honour of Dr. W. W. Chipman, to be awarded to the student obtaining the highest aggregate standing in obstetrics and gynaecology throughout the medical course.

PRIZES

THE JOSEPH HILS PRIZE. (Founded by the late Dr. Joseph Hils, of Woonsocket, R.I.)—A prize in books, awarded to the student who obtains the highest number of marks in the subject of Pharmacology.

THE JOSEPH MORLEY DRAKE PRIZE. (Founded by the late Joseph Morley Drake, M.D.)—A prize in books, to be awarded to the student who obtains the highest number of marks at the final examination in Pathology.

PRIMARY PRIZE.—A prize in books awarded for the best aggregate standing in the subjects of the first division (Anatomy, Histology, Physiology, Biochemistry).

THE F. SLATER JACKSON PRIZE.—A prize of $35 founded by Mr. and Mrs. H. F. Jackson in memory of their son, the late F. Slater Jackson, M.D. The prize is awarded to the student who obtains the highest standing in the final examinations, written and oral, in Histology.

THE ALEXANDER D. STEWART PRIZE.—An annual prize in books, founded by the late W. Grant Stewart (Arts 1885, Med. 1888) in memory of his brother, the late Alexander D. Stewart (Med. 1888), to be awarded to the member of the graduating class who, in the opinion of the Faculty, presents in every respect the highest qualifications to practise his profession.

ROBERT FORSYTH PRIZE.—Under the will of the late Miss Jeanie Forsyth a prize of $35 is awarded each year to a student who, upon graduation, has shown particular ability in all branches of surgery.

THE JOHN MUNRO ELDER PRIZE.—An annual prize of $25 founded in 1935 by Aubrey H. Elder, K.C., in memory of his father, John M. Elder, C.M.G., M.D., C.M., sometime Assistant Professor of Surgery in the Faculty. The prize is awarded to the student who obtains the highest standing in the final examinations, written and oral, in Anatomy.

CAMPBELL HOWARD PRIZE IN CLINICAL MEDICINE.—An annual prize of $50 founded by Mrs. Campbell Howard, in memory of her husband, the late Dr. Campbell P. Howard, Professor of Medicine at McGill University. The prize is awarded to the student who shows the most consistent excellence in his written case reports in the subject of Clinical Medicine.

CHESTER MACNAGHTEN PRIZES (see pages 517).

SCHOLARSHIPS

DR. MAUDE E. SEYMOUR ABBOTT SCHOLARSHIPS.—Established in 1938 by an anonymous donation of $10,000 in honour of the late Maude E. Seymour Abbott, B.A., M.D., F.R.C.P., (Canada), LL.D., (McGill), to commemorate her distinguished work in connexion with the history of Canadian medicine, the Sir William Osler Pathological Collection, and her outstanding research in congenital cardiac disease.

The revenue of this fund is used for the provision of a scholarship or scholarships to be awarded by the University to an undergraduate in the Faculty of Medicine or to an undergraduate in the Faculty of Arts and Science who is preparing to enter Medicine. While men and women are both eligible for the awards, women candidates will be given the preference. The amount of the awards will vary according to the needs of the winners.

Applications in writing must reach the Registrar before the 30th June, 1948.

THE WALTER J. HOARE MEMORIAL SCHOLARSHIP.—This scholarship was endowed by the late Dr. Charles W. Hoare, a graduate of McGill University, in memory of his son, Walter J. Hoare, who was killed in the Great War. It is open annually to pupils of the Collegiate Institutes of the counties of Essex, Kent and Lambton entering the Faculty of Medicine. If there are no qualified candidates in this preferred class, the scholarship may be awarded to another candidate nominated by the Faculty of Medicine. Applications in writing must reach the Registrar before the 1st April.

THE JENNIE LEWIS SCHOLARSHIP.—This Scholarship of $200 is awarded to the Third Year student who obtains the highest place in the

principal preclinical subjects. Holders of University Scholarships are ineligible. No application is required.

THE ESTHER TALLERMAN SCHOLARSHIP of $200 and the SAVORY BURSARY of $100 are tenable in the Second, Third, or Fourth Year, without other restriction. Applications should be made in writing to the Registrar not later than August 1st.

LOAN FUND

KELLOGG LOAN FUND.—A limited sum of money has been placed at the disposal of the Faculty of Medicine by the Kellogg Foundation to assist medical students not eligible for other grants. Nearly all the grants made possible by this fund have now been awarded so that applications will be considered only if the circumstances are exceptional. Applicants should consult Dean D. L. Thomson, Chairman of the Scholarships Committee in the Faculty of Medicine.

For awards open to Graduates in Medicine see pages 548, 551, 557.

G. OPEN TO STUDENTS IN THE FACULTY OF DENTISTRY

For scholarships and bursaries open to undergraduates in all Faculties see page 514.

MEDALS AND PRIZES

THE MONTREAL DENTAL CLUB GOLD MEDAL AND A PRIZE IN BOOKS.—Awarded to the student in the Final Year who stands first in the science and practice of Dentistry. The standing is determined not only by the written and practical examinations at the end of the year, but by the general work of the student during the year.

THE COLLEGE OF DENTAL SURGEONS OF THE PROVINCE OF QUEBEC PRIZE.—A prize of twenty-five dollars awarded to the student, registered in Quebec, obtaining the highest standing in the practical examinations of the Final Year.

THE LIEUTENANT-GOVERNOR'S SILVER MEDAL AND A PRIZE IN BOOKS.—Awarded to the student in the Final Year who stands second in the class. The standing is determined in a manner similar to that followed in the awarding of the Gold Medal.

THE LIEUTENANT-GOVERNOR'S BRONZE MEDAL AND A PRIZE IN BOOKS.—Awarded to the student obtaining the highest marks in written and practical subjects in the Third Year examinations.

The following prizes are given by The Mount Royal Dental Society:

First and Second Year Prizes.—A prize in books is awarded to the student obtaining the highest standing at the sessional examinations.

Chester Macnaghten Prizes (see page 517).

LOAN FUND

Kellogg Loan Fund.—A sum of money has been placed at the disposal of the Faculty of Dentistry by the Kellogg Foundation to assist dental students who have real financial need and are not eligible for assistance under other bursary and loan schemes. Applicants should consult Dean A. L. Walsh.

H. OPEN TO STUDENTS IN THE FACULTY OF LAW

For scholarships and bursaries open to undergraduates in all Faculties *see page 514*.

SCHOLARSHIPS AND PRIZES

The "Thomas Alexander Rowat Scholarship".—Founded by Mr. Donald McKenzie Rowat, N.P., in memory of his brother, Lieutenant Thomas Alexander Rowat, B.C.L., who was killed in action at Lens, France, on the 28th June, 1917. The value of the scholarship is $90. It is awarded in alternate years for proficiency in the French language and in the old French law. Candidates must be British subjects of Anglo-Saxon or Celtic origin. The next award of this scholarship will be in the session 1947-48.

The "Charles Albert Nutting Prize".—Founded in 1930 by Miss Adelaide Nutting, M.A., R.N., in memory of her brother, Charles Albert Nutting, K.C., B.C.L., who graduated from the Faculty in 1872. The value of the prize is $40. It is awarded to the student in the first or second year submitting the best essay on a topic related to legal history, the topic to be fixed in advance by the Faculty.

The Montreal Bar Association Prize.—The Montreal Bar Association offers a prize of $50 to the student who obtains the highest standing in Commercial Law, and the Junior Bar Association offers a prize of $15 to the student who obtains the best marks in Civil Procedure in the Final Year.

The "Alexander Morris Exhibition".—This exhibition of the value of $40, founded in memory of the late Hon. Alexander Morris, M.A., D.C.L., of Toronto, will be awarded to the student who obtains the highest standing in the Second Year.

The Adolphe Mailhiot Memorial Prize.—This prize established by Mr. and Mrs. J. N. Mailhiot, of Victoriaville, P.Q., in 1927, consists of a prize of law books to be given annually to a student selected by the Faculty, usually, but not necessarily, in the graduating class.

THE CHIEF JUSTICE GREENSHIELDS PRIZE.—This prize in Criminal Law endowed by Mrs. Greenshields in 1943 in memory of her husband, the late Chief Justice Robert Alfred Ernest Greenshields, is awarded to the member of the graduating class in Law having the highest standing in Criminal Law throughout the college course. The value of the prize is $30.

THE "I. M. E." PRIZE IN COMMERCIAL LAW.—A prize of $15 in law books awarded annually to the member of the graduating class having the highest standing in Commercial Law throughout the course.

CHESTER MACNAGHTEN PRIZES (see page 517).

MEDALS

THE "ELIZABETH TORRANCE GOLD MEDAL".—Founded in 1864 by Professor John Torrance in memory of his wife, is awarded to the student who obtains the highest marks in the Final Examination.

No medals, prizes or scholarships will be awarded if, in the opinion of the Faculty, there is no candidate of sufficient merit.

For awards open to Graduate Students see pages 542 and 550.

I. OPEN TO STUDENTS IN THE FACULTY OF MUSIC

THE SIR WILLIAM PETERSON MEMORIAL SCHOLARSHIPS.—Established in 1921 by the University and by friends, graduates and pupils of the Faculty of Music. The interest upon the original endowment of $6,055 is used to support two scholarships in Music as a memorial to the late Sir William Peterson.

For further details consult the Secretary of the Faculty.

THE SIR WILLIAM MACDONALD MEMORIAL SCHOLARSHIPS.—Established in 1922 by the University. The interest upon the original endowment of $6,000 is used to support scholarships in Music as a memorial to the late Sir William Macdonald.

For further details consult the Secretary of the Faculty.

ELLEN BALLON PIANO SCHOLARSHIP.—Founded in 1928 by a gift of $1,500 from Miss Ellen Ballon, a graduate of the Conservatorium. The principal has been increased by a further gift of $1,500 from Miss Ballon. In making this award the Faculty takes into account the need as well as the ability of candidates.

For further details consult the Secretary of the Faculty.

UNIVERSITY BURSARIES.—Full-time students studying for the Licentiate in Music or for the Bachelor of Music degree are eligible for University Bursaries. For details see page 514.

J. OPEN TO STUDENTS IN MACDONALD COLLEGE

OPEN TO STUDENTS IN AGRICULTURE AND HOUSEHOLD SCIENCE

FACULTY SCHOLARSHIPS AND BURSARIES.—The Faculty of Agriculture has an annual fund of $500 for scholarships and bursaries for degree students. For further particulars apply to the Registrar, Macdonald College.

OPEN TO STUDENTS IN AGRICULTURE

I.O.D.E. SCHOLARSHIP.—A scholarship of $200 ($100 for 2 years) is offered by the Provincial Chapter of the Imperial Order Daughters of the Empire to the British student taking the highest marks in the final examinations of the Second Year. Applications are to be sent to the Educational Secretary, I.O.D.E., The Provincial Chapter of Quebec, Mount Royal Hotel, Montreal.

THE QUEBEC WOMEN'S INSTITUTE provides a bursary of $50 to the student entering the second year of the Diploma Course in Agriculture at Macdonald College, who—

(1) is a professional farmer's son, or daughter, from the Province of Quebec,

(2) has spent at least one season (seed time to harvest) in his father's employ on the farm,

(3) intends to return to his father's farm for at least one year on completion of his course (or to manage his own farm),

(4) and who, if more than one candidate presents himself as fulfilling the above three requirements, takes the highest proficiency in agricultural subjects in the first year or, if he is the only candidate, he obtains at least Class II standing in these subjects.

If no student can qualify for the above, this bursary will be made available as an entrance bursary to the first year of the Diploma Course.

THE BORDEN COMPANY LIMITED SCHOLARSHIP.—A scholarship of the value of $200 is offered by the Borden Company Limited of Canada to encourage promising students who take a course of study of value to the dairy industry. The award will be made to a student on completion of his third year, half payable at the beginning of the second term. The following factors will be considered in making the award: high standing in the subjects of his course during the third year with emphasis on dairying, dairy chemistry, or dairy bacteriology; participation in student organizations and college activities; co-operation with students and staff in the advancement of the interests of the student body and the College as a whole.

OPEN TO STUDENTS IN THE SCHOOL OF HOUSEHOLD SCIENCE

THE FREDERICA CAMPBELL MACFARLANE SCHOLARSHIP.—A scholarship has been donated by the Quebec Women's Institutes in memory of the late Frederica Campbell Macfarlane, graduate in Institution Administration, 1912, Superintendent of Quebec Women's Institutes from 1913 to 1919. This scholarship is of the value of $50, is open only to students from a rural district of the Province of Quebec, and is awarded to the student in any of the first three years of the Home Economics course who obtains the highest percentage of marks possible in the final examination.

BURSARY IN THE SCHOOL FOR TEACHERS

I.O.D.E. BURSARY.—The Municipal Chapter I.O.D.E. offers a bursary of $350, tenable in the School for Teachers, Macdonald College. The award is made by a committee of the Municipal Chapter on the basis of Scholarship and need. Applications are to be sent to the Educational Secretary, I.O.D.E., The Municipal Chapter of Montreal, Mount Royal Hotel, Montreal.

CHRISTIE-STORER SCHOLARSHIP (see page 513).

IV. GRADUATE FELLOWSHIPS AND SCHOLARSHIPS

For scholarships and bursaries open to students in all Faculties see page 514.

DEMONSTRATORSHIPS AND INSTRUCTORSHIPS.—In several departments graduate students are eligible for demonstratorships and instructorships. Information concerning these may be obtained from the Chairman of the Department concerned.

FELLOWSHIPS AND SCHOLARSHIPS.—The following list of graduate awards is divided into three sections: A, tenable during graduate study at McGill University only; B, tenable either at McGill University or elsewhere; C, a partial list of travelling fellowships and scholarships for which graduates of McGill University may be eligible. In each of these sections the awards are listed in alphabetical order of the undergraduate faculties from which applicants may have proceeded. In Section D are collected the names of awards for which graduates of other universities who wish to pursue advanced studies at McGill may be eligible. It is to be noted that not all awards listed are open for competition each year; further, an award which is open for competition may not be awarded if none of the applications is considered meritorious.

A. FELLOWSHIPS AND SCHOLARSHIPS TENABLE AT McGILL UNIVERSITY ONLY

(*See also Section B*)

OPEN TO GRADUATES IN SEVERAL FACULTIES

THE SOLVAY FELLOWSHIP.—This fellowship of the annual value of $1,000 is offered for the first year of study in the Faculty of Graduate Studies and Research. The award is tenable in any Department of the Faculty, and is open to men and women equally. The holder must have graduated in an undergraduate Faculty of McGill University in the session prior to that for which the award is given, and must obtain permission to proceed to graduate study. No teaching duties are required of the holder, who may not hold any other fellowship or bursary, nor receive a salary for teaching or other duties, during his tenure. Applications for this fellowship must be made to the office of the Dean on or before May 1st in each year.

THE COMINCO FELLOWSHIP.—The Consolidated Mining and Smelting Company of Canada, Limited, offers annually a fellowship of $750 for research related to metals, fertilizers, and chemicals; an additional grant up to $450 may be made for research expenses or for continuance of the investigation. The fellowship is open to graduates of any approved university, in Science, Engineering, or Agriculture, who will normally be proceeding towards a higher degree at McGill. The topic of research will be selected in consultation with the donors and with the Dean of the Faculty of Graduate Studies, to whom application should be made not later than May 1st.

PROVINCE OF QUEBEC SCIENTIFIC RESEARCH BUREAU FELLOWSHIPS.—The Bureau grants Fellowships, normally of $750 annually, to graduate students who have bona-fide domicile in the Province and are pursuing researches, in any branch of science, which may lead to contributions to the welfare of the Province and the development of its industries. For further particulars consult Professor F. F. Osborne, Department of Geology.

DOMINION-PROVINCIAL LOANS AND BURSARIES.—See page 514.

OPEN TO GRADUATES IN AGRICULTURE

THE WALTER M. STEWART SCHOLARSHIPS IN AGRICULTURE.—Two scholarships of $500 each are offered to postgraduate students at Macdonald College. One may be held by a postgraduate student whose undergraduate work was taken at the Institut Agricole d'Oka, one by a student from the Collège de Sainte Anne de la Pocatière. Application for these scholarships must be made to the Directors of the two colleges concerned.

THE COMINCO FELLOWSHIP.—See above.

OPEN TO GRADUATES IN ARTS AND SCIENCE

THE ALEXANDER MACKENZIE FELLOWSHIP IN POLITICAL SCIENCE.—This fellowship of the annual value of $600 is tenable by a graduate of any accredited university. Such tenure is conditional upon the acceptance by the Department of Economics and Political Science of the applicant as being entitled to admission to the Faculty of Graduate Studies and Research in the field of Political Science. A certain amount of tutorial and teaching work will be required of the holder of the fellowship. Under certain conditions, which may be ascertained in consultation with the Department of Economics and Political Science, this fellowship may be held for a second or third year. Each candidate should send (i) a letter of application, (ii) a certified copy of his academic record, (iii) not more than three testimonials. These should reach the Dean of the Graduate Faculty before the 1st of May. There are no application forms.

THE ARTHUR C. TAGGE FELLOWSHIP.—This fellowship of the annual value of $1,000 is tenable by a graduate of any approved university proceeding to a higher degree in any Department of the Humanities or the Social Sciences. It will normally be awarded for the first year of graduate study and not be renewable, but exceptions to these rules are not excluded. Applications are invited from outstanding students in the last year of the undergraduate course, at McGill or elsewhere, and should reach the Dean of the Graduate Faculty not later than May 1st.

THE PHILIP CARPENTER FELLOWSHIP of about $700, founded in 1892 by Mrs. Philip P. Carpenter for "a post-graduate teaching fellowship or scholarship in Natural Science or some branch thereof in the Faculty of Arts of McGill College." It is normally awarded in Zoology.

THE B'NAI B'RITH MOUNT SCOPUS LODGE SCHOLARSHIP.—This Scholarship of $200 may be awarded to the most deserving student in the graduating class in Honours Psychology to permit one year's graduate study in this subject at McGill. No application is required.

THE LEROY MEMORIAL FELLOWSHIP IN GEOLOGY.—See page 546.

THE ADAMS SCHOLARSHIP IN GEOLOGY.—See page 547.

THE LOGAN BURSARIES IN GEOLOGY.—See page 525.

THE T. STERRY HUNT RESEARCH SCHOLARSHIP IN CHEMISTRY.—This scholarship of the value of $600 is open to graduates in Chemistry and Chemical Engineering who have completed the course for the degree of M.Sc., M.Eng. or Ph.D. and have shown high capacity for research. The holder may be required to assist in the Department as a demonstrator.

THE C-I-L FELLOWSHIPS.—Two postgraduate fellowships in Chemistry, each of the value of $750 and tenable in the Department of Chemistry, were established in 1941 by Canadian Industries Limited. These fellow-

ships are known as the C-I-L Fellowships and are open to any British subject who is a graduate of a recognized university. Normally the fellowships will be tenable for one year only, but in special cases they may be renewed for a second year. For further particulars consult the Registrar's Office, not later than May 1st.

THE BRONFMAN FELLOWSHIPS IN COMMERCE AND ECONOMICS.—The Graduate Faculty offers two fellowships of $1,200 each to men and women who have graduated in Commerce or in Economics from accredited universities since January 1st, 1940. The fellowships are renewable in cases of very meritorious work. Holders will be expected to be in residence at McGill University throughout the academic session, and to be candidates for a higher degree at McGill. A small amount of teaching work may be asked. Application forms can be obtained from the Dean of the Graduate Faculty. The completed forms should be returned to the Dean of the Graduate Faculty on or before May 1st.

THE INCO SCHOLARSHIPS.—See page 547.

THE H. L. BLACHFORD SCHOLARSHIP.—A scholarship of the value of about $750 tenable by a student proceeding to his master's or doctor's degree in Organic Chemistry will be granted for the session 1947-48. For further particulars consult Dr. R. V. V. Nicholls, Department of Chemistry, not later than May 1st.

THE MARY KEENAN SCHOLARSHIP IN ENGLISH.—This scholarship of $200 is awarded by the Department of English to a student who is proceeding at McGill University from the B. A. to the M. A. in English and who may receive the most benefit from the award. The need of the student as well as his ability will be taken into consideration. No application is required.

THE GOTTESMAN FELLOWSHIP.—The D. S. and R. H. Gottesman Foundation offers annually a fellowship of $800 for research carried out in the Pulp and Paper Research Institute under the supervision of the Department of Chemistry. The candidate must be an American or British subject and a graduate of a recognized university; he will normally be expected to register at McGill as a candidate for a higher degree. The award is made on the recommendation of the Joint Administrative Committee of the Institute and of the Department of Chemistry; applications should be sent to Dr. O. Maass, Chairman of the Department, not later than May 1st, and should be accompanied by an academic transcript, letters of recommendation, and a passport-type photograph.

THE BROWN FELLOWSHIP.—This Fellowship of $1,000 may be granted to a graduate in Chemistry or Chemical Engineering who is proceeding to a higher degree at McGill and carrying on research on the bleaching of pulps in the Pulp and Paper Research Institute. Applications should be

sent to Professor C. B. Purves not later than May 1st, and the award is made jointly by the Department of Chemistry and the Joint Administrative Committee.

THE NUODEX FELLOWSHIP.—This Fellowship of $800 may be granted to a graduate of any recognized university who is carrying out research of interest to the Canadian Paint and Varnish Industry in the Organic Division of the Department of Chemistry and is a candidate for a higher degree. Applications should be sent to Professor R. V. V. Nicholls not later than May 1st.

THE SYLVANIA FELLOWSHIP.—This Fellowship of $1,000 per annum may be granted to a graduate of any recognized university who is a British or American subject and is to carry out research on esters or ethers of cellulose in the Division of Cellulose and Industrial Chemistry, located in the Pulp and Paper Research Institute. Applications should be sent to Professor C. B. Purves not later than May 1st.

THE SHELL OIL FELLOWSHIP.—This Fellowship of $750, plus a grant up to $250 for research expenses, is offered to a graduate of any approved university proceeding towards a Master's degree or Ph. D. at McGill in one of the following fields: Chemistry, Chemical Engineering, Mechanical Engineering, Geology, Physics, Geophysics. Application should be made to the Dean of the Graduate Faculty not later than May 1st.

THE SHAWINIGAN FELLOWSHIP.—Shawinigan Chemicals Limited offers a Fellowship of $1,000 for research carried out in the Pulp and Paper Research Institute under the supervision of the Department of Chemistry. The candidate must be a graduate of a recognized university. He will normally be expected to register at McGill as a candidate for a higher degree and to carry out research in the field of unsaturated esters of cellulose. The award is made on the recommendation of the Joint Administrative Committee of the Institute and of the Department of Chemistry; applications should be sent to Dr. O. Maass, Chairman of the Department, not later than May 1st, and should be accompanied by an academic transcript, letters of recommendation, and a passport-type photograph.

THE FRANK J. SENSENBRENNER AND JAMES C. KIMBERLEY FELLOWSHIPS.—See page 547.

OPEN TO GRADUATES IN ENGINEERING

THE LEROY MEMORIAL FELLOWSHIP IN GEOLOGY.—This fellowship of $600, established by some friends of Captain O. E. LeRoy (Arts, 1895), who was killed in the battle of Passchendæle, in October, 1917, is awarded annually to a student who desires to proceed with postgraduate studies in Geology at McGill University. The recipient may be called upon to assist

in the teaching work of the Department. The award is made by the Chairman of the Department of Geological Sciences in consultation with the Principal.

THE T. STERRY HUNT RESEARCH SCHOLARSHIP IN CHEMISTRY.—See page 544.

THE SIR WILLIAM DAWSON FELLOWSHIP IN MINING.—A research and teaching fellowship of $600 annually, in the Department of Mining and Metallurgical Engineering, endowed in memory of the late Sir William Dawson, Principal of McGill University from 1855 to 1893.

THE JAMES DOUGLAS FELLOWSHIP IN MINING.—A research and teaching fellowship of $550 annually, in the Department of Mining and Metallurgical Engineering, endowed by the late Dr. James Douglas.

THE B. J. HARRINGTON BURSARY IN MINING ENGINEERING.—This bursary of approximately $150 a year, supported by graduates in Mining Engineering in memory of the late Professor B. J. Harrington, is awarded annually if a suitable candidate offers.

THE JOHN BONSALL PORTER SCHOLARSHIP.—This scholarship, founded by Dr. W. W. Colpitts (B.Sc., 1899), is open to graduate students proceeding to the degree of M.Eng. in Civil, Mechanical, or Electrical Engineering, preference being given to students in Civil Engineering. The value of the scholarship for 1947-48 will be $200. Applications should be in the hands of the Dean of the Faculty of Engineering not later than July 30th, 1947. In the case of graduates of other universities these must be accompanied by certified statements of academic standing and letters of recommendation.

THE ADAMS SCHOLARSHIP.—A scholarship of $300, presented by the late Professor F. D. Adams, will again be available in 1947-48 for a graduate student in the Department of Geological Sciences.

THE INCO SCHOLARSHIPS.—Three scholarships of $500 each were established in 1941 by the International Nickel Company of Canada. They are tenable by students working for the master's degree in Chemical Engineering, Mining, Metallurgy, or Geology. One of the three awards is tenable at McGill University. For further particulars consult the Registrar's Office, not later than May 1st.

THE FRANK J. SENSENBRENNER AND JAMES C. KIMBERLEY FELLOWSHIPS IN APPLIED SCIENCE.—These Fellowships, sponsored by the Spruce Falls Power and Paper Corporation, Limited, are open to Canadian graduates of any approved University who wish to proceed to a higher degree in Chemistry, or in Chemical, Civil, Electrical, or Mechanical Engineering. Each Fellowship has a total value of $1,000, of which not more than $250 may be set aside as a grant to cover the expenses of the holder's research. Applications should reach the Dean of the Graduate Faculty before May 1st.

THE C-I-L FELLOWSHIPS.—See page 544.

THE GOTTESMAN FELLOWSHIP.—See page 545.

THE SHELL OIL FELLOWSHIP.—See page 546.

THE BROWN FELLOWSHIP.—See page 545.

THE SYLVANIA FELLOWSHIP.—See page 546.

THE NUODEX FELLOWSHIP.—See page 546.

THE WADDELL LOAN FUND.—Loans from this fund, which was founded by J. B. Waddell, Esq., may be made to graduate as well as undergraduate students in any Department of Engineering. Application should be made to the Dean of the Faculty of Engineering.

OPEN TO GRADUATES IN MEDICINE

THE A. A. BROWNE MEMORIAL FUND.—The sum of $10,000 has been received by the Faculty of Medicine from the committee of the A. A. Browne Memorial Fund. This fund is used either for a fellowship to be known as the "A. A. Browne Memorial Fellowship", or for a grant to a department to provide technical assistance, equipment, and supplies for medical research. The fellowship is open to graduates of any recognized medical school and is for the advancement of medical science, special preference being given to the subjects of obstetrics and gynæcology.

THE JAMES DOUGLAS FELLOWSHIP IN PATHOLOGY.—The sum of $25,000 was donated by the late Dr. James Douglas, the proceeds to be devoted to co-ordinated research in the laboratories of pathology in or associated with the University.

THE JAMES COOPER ENDOWMENT "FOR THE "STUDY AND TEACHING OF INTERNAL MEDICINE" was established by a bequest from the late James Cooper. The income from this fund will be used for fellowships or for grants to departments to provide technical assistance, equipment and supplies for medical research.

THE BLANCHE HUTCHINSON RESEARCH FUND was established by a bequest from the late Mrs. Frank L. Hutchinson. The income from this fund will be used for fellowships or for grants to departments to provide technical assistance, equipment, and supplies for medical research.

THE H. W. MOLSON FELLOWSHIP IN CANCER RESEARCH.—This Fellowship has an annual value of not less than $1,000, is renewable for not more than four years, and is open to graduates of any recognized medical school. The course of training and research will be decided by the Strathcona Professor of Pathology and the Professor of Obstetrics and Gynaecology, and will ordinarily comprise one or more years of study in the Pathological Institute followed by clinical research in the Royal Victoria Hospital. Applications should be made to the Dean of the Faculty of Medicine.

FELLOWSHIPS IN NEUROLOGY, NEUROPATHOLOGY AND NEUROSURGERY.—A limited number of fellowships may be available in the Montreal Neurological Institute, to which enquiries should be directed.

B. FELLOWSHIPS AND SCHOLARSHIPS TENABLE AT McGILL UNIVERSITY OR ELSEWHERE

OPEN TO GRADUATES IN ALL FACULTIES

THE McGILL DELTA UPSILON MEMORIAL SCHOLARSHIP.—Founded by the McGill Chapter of the Delta Upsilon Fraternity in memory of the members of that Chapter who gave their lives in the Great War of 1914-18. This scholarship is open to graduates of the University in all faculties. The Selection Committee will consider: (a) the general scholarship of the candidate; (b) his need of financial assistance for further study; (c) the general usefulness to the community of the special branch of study he proposes to follow; (d) the likelihood that the candidate will reflect credit on the University. The present value of the scholarship is about $700.

OPEN TO GRADUATES IN AGRICULTURE

MACDONALD COLLEGE ALUMNI ASSOCIATION GRADUATE SCHOLARSHIP.—In memory of graduates and undergraduates of the Faculty of Agriculture who died in service during the War of 1914-1918; created, in connection with the Centennial Campaign, 1920, through subscriptions of graduates, undergraduates, members of the staff and other friends; of a present value of $200 and available to any graduate in Agriculture of Macdonald College (McGill University) for graduate work in Agriculture at any college or university of recognized standing. The holder is chosen by a committee appointed by the executive of the Macdonald College Alumni Association, and applications should be addressed to Dr. F. S. Thatcher, General Secretary, Alumni Association, Macdonald College, P.Q.

OPEN TO GRADUATES IN ARTS AND SCIENCE

THE ALLEN OLIVER FELLOWSHIP.—This fellowship has been established by Mrs. Frank Oliver, of Edmonton, Alta., in "proud and loving memory of her son, the late Allen Oliver, M.C., B.A., Lieutenant, 26th Battery, C.F.A., who was killed in action at the Somme on November 18th, 1916." Lieutenant Oliver was an honour graduate in 1915 in the Department of Economics and Political Science. The fellowship is awarded annually to the student who stands highest in first class honours in the

Department of Economics and Political Science at the final B.A. examination, and the holder is required to pursue his studies in Economics and Political Science at McGill University or elsewhere. The present value of the scholarship is about $400. No application is required.

THE GUY DRUMMOND MEMORIAL SCHOLARSHIP.—This scholarship, endowed by the late Guy M. Drummond, and tenable for one year, is awarded annually to a graduating student in the Department of Economics and Political Science. The value of the scholarship is the income derived from a capital sum of $58,700 to cover a year of study divided between Paris and McGill and leading to the M.A., or, in special circumstances, a whole academic year in Paris and then a year studying for the M.A. at McGill. The holder may attend the Graduate Faculty of McGill University for one year before or after his study in Paris, or may go to France in the summer following his appointment, attend the Ecole Libre from its autumn opening until the New Year, and then return to resident work at McGill, being eligible for the M.A. degree in May of that year. The award is made by the University Scholarships Committee upon the recommendation of the Department of Economics and Political Science and the Department of French.

NATIONAL RESEARCH COUNCIL SCHOLARSHIPS.—Bursaries, Studentships, and Fellowships, which in 1947 had the values of $450, $750, and $900 respectively, will probably be awarded in 1948 by the National Research Council to highly qualified graduates in Science. They are open on equal terms to men and women, whose age should not exceed 30. In 1947 the last day for receiving applications was March 1st. Further particulars may be obtained from the Registrar's Office.

OPEN TO GRADUATES IN ENGINEERING

IMPERIAL OIL FELLOWSHIPS.—Four fellowships of $1,000, renewable up to three years, are offered annually by Imperial Oil Limited to graduates of approved Canadian universities, and are tenable for post-graduate study in any approved university in petroleum engineering, petroleum geology, chemistry or chemical engineering, or mechanical engineering. Applications are forwarded by the University at which the undergraduate course was followed, and inquiries should be made at the University not later than May 1st.

OPEN TO GRADUATES IN LAW

THE EDWIN BOTSFORD BUSTEED SCHOLARSHIP.—Founded by the will of the late Mrs. Edwin Botsford Busteed and awarded to a student, chosen by the Faculty, in the graduating year who desires to carry out research after graduation on some subject connected with the law of Quebec and approved by the Faculty. The value of the scholarship is the income from a capital sum of $6,000, or approximately $240, which will be paid to the scholar when his thesis has been accepted by the Faculty.

OPEN TO GRADUATES IN MEDICINE

THE J. H. B. ALLAN FELLOWSHIP.—This fellowship, of the value of $300 annually, may be awarded to a graduate of the Faculty of not more than five years' standing, to assist him or her to devote one academic year to research. The research may be in any branch of medicine or medical science, and may be carried out in any approved laboratory, museum, or hospital, whether connected with McGill University or not; but research must be the holder's principal occupation during tenure of the fellowship, which is not normally renewable. The award shall be made by the Faculty on the recommendation of its Scholarships Committee, which shall take into account the candidate's academic and professional qualifications and the programme of work which the candidate proposes to pursue. Tenure of this award shall not debar the holder from receiving a salary or an award from any other fund, but the nature and amount of any such award or salary must be disclosed in the application. The applicant's programme of work must be approved in advance by the laboratory or institution in which the research is to be carried on. Applications should be made to the Secretary of the Faculty of Medicine on or before July 1st in each year; no award will be made if the applications received are not thought to reach the standard required.

THE J. FRANCIS WILLIAMS FELLOWSHIP IN MEDICINE AND CLINICAL MEDICINE.—This fellowship of the annual value of $500, founded by the late J. Francis Williams, M.D., to be awarded on the result of a special examination open to students of the final year who have had a high general scholastic standing and who are approved by the Chairman of the Department of Medicine.

THE OSLER MEMORIAL SCHOLARSHIP.—This scholarship is normally awarded by the Canadian Medical Association every third year to a candidate nominated by the Faculty of Medicine "in order that such candidate may pursue studies to advance the knowledge of medicine and to improve the teaching of clinical medicine." Candidates must be graduates of not more than ten years' standing and, other things being equal, preference will be given to a graduate of McGill University.

THE CASGRAIN AND CHARBONNEAU AWARD.—An annual award of $500 given by the firm of Casgrain and Charbonneau for original work leading to improvement in the prevention or treatment of disease. Candidates must be graduates of McGill University or students in the Faculty of Graduate Studies and Research of McGill University. Applications should be made in writing to the Dean of the Faculty of Medicine before April 1st.

THE G. RUTHERFORD CAVERHILL FELLOWSHIP IN MEDICINE.—A fellowship of variable value to assist demobilized medical officers to obtain

postgraduate training in medicine or research experience. Preference will be given to graduates of McGill University. Enquiries should be made of the Dean of the Faculty of Medicine.

THE JOHN MCCRAE FELLOWSHIP.—This Fellowship of $1,000 may be awarded to candidates of the following types: (1) Graduates of any approved medical school who are candidates for the Diploma in Surgery, Urology, Otolaryngology, Radiology, etc., or (2) McGill graduates in medicine, or (3) graduates of any approved medical school proceeding towards a McGill M. Sc. or Ph. D. in fields related to Surgery, etc., it being understood in all cases that the holder is expected to spend twelve months in full-time laboratory or clinical research at McGill or an approved institution elsewhere. Applications should be made to the Secretary of the Faculty of Medicine not later than May 1st, and should be accompanied by a letter of recommendation from a member of the teaching staff, a transcript of the undergraduate record, and a description of the proposed research indicating the institution selected and the person responsible for its direction. The period of tenure should commence not earlier than June nor later than October; a final report on the work done is required. In all cases preference will be given to candidates aiming at a course in Surgery, and to researches likely to contribute to Surgery and its branches.

C. FELLOWSHIPS AND SCHOLARSHIPS TENABLE AT OTHER UNIVERSITIES ONLY

(See also Section B)

OPEN TO GRADUATES IN SEVERAL FACULTIES

ROYAL SOCIETY OF CANADA FELLOWSHIPS.—Ten annual research fellowships, endowed by the Carnegie Corporation, will probably be awarded in 1948. They are of the value of $1,500, are open to men and women on equal terms, and are tenable normally outside Canada only. Candidates should have at least a master's degree and their age should not exceed 32. In 1947 the last day for receiving applications was February 1st. Further particulars may be obtained from the Registrar's Office.

SCIENCE SCHOLARSHIPS GRANTED BY HER MAJESTY'S COMMISSIONERS FOR THE EXHIBITION OF 1851.—These scholarships, of at least £275 sterling a year, are tenable for two, or, in rare instances, three years. They are limited, "to those branches of science, the extension of which is especially important to our national industries." The holder is required to devote himself to research, the particular nature of which must be approved by the Commissioners. Three of these scholarships, which are tenable at any institution approved by the Commission, are allotted to Canada each year, the scholars being chosen by the Commission from the nominees of certain

universities, among which McGill is included. Candidates will in most cases have completed from one to three years of postgraduate study; the scholarships are usually held at universities in the United Kingdom. Candidates should apply, not later than April 1st, through the Chairman of their Department. Details concerning the regulations may be obtained from the Registrar's Office.

BRITISH COUNCIL SCHOLARSHIPS.—The British Council offers four scholarships each year to graduates of the Dominion universities. These scholarships are tenable in Great Britain and enable specially qualified persons to study conditions in their particular field, e.g. in Education, Economics, Public Health, Social Service or Medicine. The value of the scholarships is £300 together with rail and steamer fares to England and back.

THE RHODES SCHOLARSHIPS.—These scholarships of £400 a year are tenable for two years at the University of Oxford. A third year may be granted under certain conditions. Candidates must be British subjects with at least five years domicile in Canada and be between the ages of nineteen and twenty-five. Two scholars are chosen annually from the Province of Quebec, and men students in any faculty may apply. Applications must be in the hands of the Secretary of the Provincial Selection Committee not later than November 10th. Further details of tenure, eligibility and qualifications, and application forms may be obtained from the Registrar's Office, or the Provincial Secretary, Mr. Douglas Barlow, P.O. Box 34, Station B, Quebec City.

PROVINCE OF QUEBEC POST-GRADUATE SCHOLARSHIPS.—A number of scholarships are granted annually by the Government of the Province to graduates who wish to complete their studies outside Canada. These scholarships are each of the value of $1,200 per annum. They are awarded in the first instance for one year, but their tenure may be extended to three years if the work of the holder is satisfactory. Candidates must be bona-fide residents of the Province of Quebec and preference is given to those who intend to carry on teaching or research work in Canadian universities or schools on their return to Canada. Each letter of application should state the candidate's age next birthday, his subject of study and the institution he plans to attend, and should be accompanied by two testimonials from members of his faculty and two additional references from responsible citizens. The awards are generally announced by the Provincial Government at the end of July each year. Applications should be addressed to the Registrar and submitted not later than the 1st of April.

UNIVERSITY WOMEN'S FEDERATION TRAVELLING SCHOLARSHIP.—The Scholarship of the Canadian Federation of University Women, of the value of $1,250, available for study and research work, is open to any woman holding a degree from a Canadian university, who is not more than thirty-

five years of age at the time of the award. In general, preference is given to those candidates who have completed at least one or two years of graduate study and have a definite course of study or research in view. The award is based on evidence of character and ability of the candidate and promise of success in the subject to which she is devoting herself. The choice of the university at which the successful candidate is to pursue her study or research work is left to the Committee of Selection in consultation with the candidate. Full information can be obtained from the Convenor of the Scholarship Committee, Dr. Cecilia Krieger, University of Toronto, Toronto, Ont. Applications and testimonials must be received before February 1st.

University Women's Federation Junior Scholarship.—This scholarship of the value of $850 is open to any woman graduate of a Canadian university who is not more than twenty-five years of age on February 1st, 1948. The award will be based on evidence of character, intellectual achievement and promise. The place of study must be approved by the Scholarship Committee. Preference will be given to students who have studied in only one university and who desire to continue their studies in another. Full information can be obtained from the Convenor of the Scholarship Committee, Dr. Cecilia Krieger, University of Toronto, Toronto, Ont. Applications and testimonials must be received before February 1st.

Post-Graduate Scholarships Granted by the Imperial Order Daughters of the Empire.—Nine are offered annually—one for each province. They are of the value of $1,400 and have been founded "to enable students to carry on studies at any university in the United Kingdom, in British and Imperial History, the Economics and Government of the Empire and Dominion, or any subject vital to the interests of the Empire." Full details may be obtained from the Provincial Educational Secretary of the Order in any Canadian Province. In Quebec the address is Room 1111, Mount Royal Hotel, Montreal.

OPEN TO GRADUATES IN ARTS AND SCIENCE

The Moyse Travelling Scholarships.—Two scholarships of the value of $1,000 each, tenable for one year, founded by the late Right Honourable Lord Atholstan, to commemorate the "splendid services of Dr. Charles E. Moyse, for forty-two years Professor of English, during sixteen of which he was Dean of the Faculty of Arts and Vice-Principal of the University." These scholarships are awarded by the Faculty of Arts and Science, one for distinction in literary subjects, and the other for distinction in scientific subjects. If a deserving applicant in one of these divisions is not forthcoming, both scholarships may be awarded to applicants who belong to the other. The holder must devote the period of the tenure of the scholarship to advanced study, preferably in a British or European university, but not to the exclusion of other universities.

OPEN TO GRADUATES IN ARCHITECTURE

THE HUGH MCLENNAN MEMORIAL SCHOLARSHIP.—Established by the Hon. John Stewart McLennan and Dr. Francis and Miss Isabella McLennan in memory of Hugh McLennan, son of the Hon. John Stewart McLennan, killed at the Battle of Ypres in 1915. The amount of this scholarship is $1,000. It will be awarded to the student graduating in Architecture who during his course has shown the greatest capacity in the solution of problems and who gives promise of creative ability.

OPEN TO GRADUATES IN LAW

THE MACDONALD TRAVELLING SCHOLARSHIP.—This scholarship was founded by the will of the late Sir William Macdonald "for the purpose of enabling English-speaking Law students to take a course of studies in France," the testator "deeming it of great importance that the English-speaking members of the legal profession should be proficient in the French language." The value of the scholarship is approximately $1,200. The scholar elected is required to pursue a year's study in the Law Faculty of a French university approved in each case by the McGill Faculty of Law. The award is made at the discretion of the Faculty to a student of the graduating class, not being a notarial student, who has obtained first or second class honours in the final examination and who would be unable without such financial help to spend a year in France. The Faculty interprets the will of the late Sir William Macdonald as intending that the scholarship be awarded only to men students preparing for practice as advocates in the Province of Quebec. This scholarship will be awarded in 1948 only if conditions in France permit.

FELLOWSHIPS OFFERED BY OTHER UNIVERSITIES

Graduates of McGill University who desire to undertake graduate study elsewhere should note that many universities offer fellowships and scholarships for which they may be eligible. Particulars of many of these may be obtained in the Registrar's Office. In many cases applications should be prepared not later than the January preceding the session for which the award is made.

D. FELLOWSHIPS AND SCHOLARSHIPS OPEN TO GRADUATES OF OTHER INSTITUTIONS FOR STUDY AT McGILL UNIVERSITY

A number of the awards listed in the preceding pages (Sections A and B) may be held by graduates of other institutions while pursuing graduate study at McGill University; these are listed below.

VARIOUS SUBJECTS

The Arthur C. Tagge Fellowship.—See page 544.

National Research Council Scholarships.—See page 550.

Post-Graduate Scholarships Granted by the Imperial Order Daughters of the Empire.—See page 554.

University Women's Federation Travelling Scholarship.—See page 553.

AGRICULTURE

The Walter M. Stewart Scholarships in Agriculture.—See page 543.

The Cominco Fellowship.—See page 543.

BIOLOGICAL SCIENCES

The Philip Carpenter Fellowship.—See page 544.

CHEMISTRY

The T. Sterry Hunt Research Scholarship in Chemistry.—See page 544.

The C-I-L Fellowships.—See page 544.

The Shell Oil Fellowship.—See page 546.

The Inco Scholarships.—See page 547.

The Cominco Fellowship.—See page 543.

The H. L. Blachford Scholarship.—See page 545.

The Gottesman Fellowship.—See page 545

The Brown Fellowship.—See page 545.

The Sylvania Fellowship.—See page 546.

The Nuodex Fellowship.—See page 546.

ECONOMICS

The Alexander Mackenzie Fellowship in Political Science.—See page 544.

The Bronfman Fellowships.—See page 545.

ENGINEERING

The Frank J. Sensenbrenner and James C. Kimberley Fellowships.—See page 547.

THE B. J. HARRINGTON BURSARY IN MINING ENGINEERING.—See page 547.

THE JOHN BONSALL PORTER SCHOLARSHIP.—See page 547.

THE SIR WILLIAM DAWSON FELLOWSHIP.—See page 547.

THE JAMES DOUGLAS FELLOWSHIP IN MINING.—See page 547.

THE IMPERIAL OIL FELLOWSHIPS.—See page 550.

GEOLOGY

THE LEROY MEMORIAL FELLOWSHIP IN GEOLOGY.—See page 546.

THE ADAMS SCHOLARSHIP.—See page 547.

MEDICINE AND MEDICAL SCIENCES

THE JOHN MCCRAE FELLOWSHIP.—See page 552.

THE BROWNE, COOPER AND HUTCHINSON FUNDS.—See page 548.

THE JAMES DOUGLAS FELLOWSHIP IN PATHOLOGY.—See page 548.

THE H. W. MOLSON FELLOWSHIP IN CANCER.—See page 548.

FELLOWSHIPS IN NEUROLOGY AND NEUROSURGERY.—See page 549.

The attention of applicants for admission to the Faculty of Graduate Studies is also drawn to the existence of demonstratorships and instructorships in certain departments (see page 542).

(N.B.—From time to time scholarships, fellowships, or research grants are made available by industrial corporations to encourage research by graduate students upon specific problems, suitable for M. Sc., M. Eng., or Ph. D. theses and for publication, but also of commercial significance. As such awards may be offered for only one or two sessions, it is not possible to have them listed in this Announcement; the Departments concerned should be consulted.)

V. SCHOLARSHIPS, PRIZES AND MEDALS IN THE VARIOUS SCHOOLS OF THE UNIVERSITY

OPEN TO STUDENTS IN THE LIBRARY SCHOOL

THE ETHELWYN M. CROSSLEY SCHOLARSHIP FUND, founded in honor of a former student of the school, is available on application and after due

investigation and recommendation, to deserving students who require financial assistance to take the course. The amount available annually is about $60.

The Elizabeth G. Hall Scholarship Fund was established in 1946 for the assistance of students. Application should be made to the Director of the Library School.

OPEN TO STUDENTS IN THE SCHOOL OF PHYSICAL EDUCATION

PRIZES AND MEDALS

Gold Medal.—The School offers a gold medal to the student who attains the highest general proficiency throughout the course.

Lieutenant-Governor's Silver Medal.—This medal is awarded to the junior student who attains the highest general proficiency in the sessional examinations.

(N.B.—The above conditions may be amended and prizes may be withheld at the discretion of the Committee.)

OPEN TO STUDENTS IN THE FRENCH SUMMER SCHOOL

French Summer School Scholarships.—A number of Resident Scholarships are offered to teachers and to students of colleges and universities who are qualified to enter Section B (Intermediate) or Section C (Advanced). (See French Summer School Announcement.)

OPEN TO STUDENTS ENTERING THE SCHOOL FOR GRADUATE NURSES

SCHOLARSHIPS

Applicants for scholarships must meet the entrance requirements of the University (Junior Matriculation standing or its equivalent). Preference will be given to applicants with experience in the nursing field.

1. Alexandra Hospital.

   The Board of Governors offers a scholarship in the form of full maintenance at the hospital during a year's study at the School for Graduate Nurses. Members of the hospital nursing staff are eligible.

2. Association of Nurses of the Province of Quebec.

A scholarship of $350 to a member of the Association of Nurses of of the Province of Quebec whose qualifications are acceptable to McGill University for any course selected in the School for Graduate Nurses.

3. Children's Memorial Hospital School of Nursing.

The Board of Governors offers a scholarship in the form of maintenance at the hospital during one year's study at the School for Graduate Nurses.

4. Montreal General Hospital School for Nurses.

1. The Mildred Hope Forbes Memorial Scholarship Fund provides three annual scholarships for graduate work in nursing at a Canadian university, offered to graduates of the Montreal General Hospital School for Nurses.

2. The Alumnae Association of the Montreal General Hospital School for Nurses offers a scholarship. Only members of the Alumnae Association are eligible.

5. Royal Victoria Hospital School of Nursing.

1. The Mabel F. Hersey Scholarship is given annually by the Board of Governors for a year of post-graduate study at the School for Graduate Nurses, McGill University.

2. An annual scholarship is awarded from the Dr. Garrow Fund for post-graduate work.

3. The Emma Thomas Scholarship is offered annually for post-graduate study.

4. The Ida McGregor Scholarship is offered annually for post-graduate study.

6. Shriners' Hospital for Crippled Children.

A scholarship in the form of maintenance at the hospital during a year's study at the School for Graduate Nurses offered by the Board of Governors of the Montreal Unit to registered graduate nurses who have affiliated as student nurses at the Shriners' Hospital.

7. Victorian Order of Nurses for Canada.

The Victorian Order of Nurses for Canada offers scholarships of $500 each to nurses taking a year's post-graduate course in Public Health Nursing. Candidates who have been on the staff of the Order for two months or more will be given preference.

8. The Homoeopathic Hospital of Montreal.

The Alumnae Association of The Homoeopathic Hospital School for Nurses offers a scholarship of $200 for a year's study in Teaching and

Supervision in Schools of Nursing at the School for Graduate Nurses, McGill University. Only members of the Alumnae Association are eligible.

9. Montreal Maritime Women's Club Scholarship.—A scholarship of $50 provided by the Maritime Women's Club of Montreal and open only to candidates from the Maritime Provinces. The award is made by the School for Graduate Nurses which takes into account the candidates' scholarship, character, personality, and qualities of leadership.

W. K. Kellogg Foundation Loan Fund.—Through the generosity of the Foundation, this fund has been established to assist graduate nurses who cannot otherwise meet the expenses of a year of study at the school. For further particulars applicants should consult the Director of the School for Graduate Nurses.

OPEN TO STUDENTS IN THE SCHOOL OF PHYSIOTHERAPY

For scholarships, bursaries, and loan funds open to undergraduates in all faculties see page 514.

The Lieutenant-Governor's Silver Medal, to be awarded to the most proficient student in the graduating class.

OPEN TO STUDENTS IN THE SCHOOL OF SOCIAL WORK

Several bursaries will be available for the Session 1947-48.

While awards are made only to students of attainment and promise, the financial needs of applicants will receive consideration. Inquiries should be addressed to the Director.

The Alumni Society of the School has established a Loan Fund for the use of students.

VI. MEDALS AND PRIZES IN THE DEPARTMENT OF PHYSICAL EDUCATION

I. For Men

The Wicksteed Medals.—The Wicksteed silver and bronze medals for physical education (the gift of the late Dr. R. J. Wicksteed) are offered for competition to students of the graduating class and to students

who have had instruction in the gymnasium for two sessions; the silver medal to the former, the bronze medal to the latter. The award of these medals is made by judges appointed by the University Committee on Physical Education. The medal is not awarded to any student who fails in his examinations for the degree.

THE DR. CHARLES F. MARTIN LAWN TENNIS TROPHY.—Presented by Walter Vaughan, Bursar, McGill University, in honour of Dr. Charles F. Martin, this trophy is open for competition to undergraduate students of McGill University and is awarded to the winner of the annual singles competition. A miniature is presented to the winner for his retention.

II. FOR WOMEN.

STRATHCONA PRIZES.—The Department of Physical Education in conjunction with the M.W.S.A.A., offers a prize for competition in each of the four years of the Faculty of Arts and Science. Details of the competition are announced at the beginning of each session.

THE DR. CHARLES F. MARTIN LAWN TENNIS TROPHY.—Presented by Walter Vaughan, Bursar, McGill University, in honour of Dr. Charle F. Martin, this trophy is open for competition to undergraduate students of McGill University and is awarded to the winner of the annual singles competition. A miniature is presented to the winner for her retention.

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McGILL UNIVERSITY

MONTREAL

McGILL COLLEGE

(FACULTY OF ARTS AND SCIENCE)

1947-1948

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ADMINISTRATIVE OFFICERS

THE UNIVERSITY

Principal.....F. Cyril James, Ph.D., D.C.L., LL.D., Docteur de l'Université (Montreal).

Comptroller and Executive Assistant to the Principal.....S. H. Dobell, D.S.O.

Bursar.....William Bentley, C.G.A.

Registrar.....T. H. Matthews, M.A.

Director of Extension Courses.....Wilfrid Bovey, O.B.E., K.C., B.A., LL.B., D.Litt., LL.D., F.R.S.C., M.L.C. (Que.).

Librarian.....Richard Pennington, B.A.

Warden of the Royal Victoria College..Muriel V. Roscoe, M.A., Ph.D.

Warden of Douglas Hall.....R. D. Maclennan, M.A.

Vice Principal of Dawson College.....Carleton Craig, B.A., M.Eng.

FACULTY OF ARTS AND SCIENCE

Dean of the Faculty.....A. H. S. Gillson, O.B.E., M.A.

Assistant Dean.....J. B. Rollit, M.A., Ph.D.

Chairman, Humanities Group.....H. G. Files, M.A., Ph. D.

Chairman, Biological Sciences Group..H. E. Hoff, M.D., D Phil.

Chairman, Physical Sciences Group...C. B. Purves, B.Sc., Ph.D., D.Sc.

Chairman, Social Studies and Commerce Group.....E. F. Beach, M.A., Ph.D.

Director of the School of Commerce....H. D. Woods, M.A.

COUNCIL

The Dean, the Principal, and the four Group Chairmen form the Council of the Faculty.

STANDING COMMITTEES OF THE FACULTY OF ARTS AND SCIENCE

SESSION 1947-48

B. A. ADVISORY COMMITTEE

THE DEAN, *Chairman*
E. R. ADAIR
C. A. DAWSON
H. G. FILES
W. L. GRAFF
W. H. HATCHER
JOHN HUGHES
G. H. T. KIMBLE
J. LAUNAY
R. D. MACLENNAN
W. D. WOODHEAD

B. COM. ADVISORY COMMITTEE

H. D. WOODS, *Chairman*
THE DEAN
E. F. BEACH
W. H. HATCHER
B. H. HIGGINS
B. S. KEIRSTEAD
D. R. PATTON
H. TATE
P. VINEBERG

B.Sc. ADVISORY COMMITTEE

W. H. HATCHER, *Chairman*
THE DEAN
T. H. CLARK
R. D. GIBBS
H. E. HOFF
R. V. NICHOLLS
J. J. O'NEILL
M. V. ROSCOE
A. N. SHAW
D. L. THOMSON

The B.A., B.Sc., and B. Com. Advisory Committees also act together as a General Advisory Committee.

SCHOLARSHIPS COMMITTEE

E. R. Adair, *Chairman*
The Dean
J. Dando
W. H. Hatcher
G. H. Kimble
F. LaViolette
M. V. Roscoe
H. Tate
K. Terroux
W. D. Woodhead

TIME TABLE COMMITTEE

C. H. Carruthers, *Chairman*
C. Currie
W. H. Hatcher
H. Tate

COMMITTEE ON ADMISSIONS AND STANDING

W. H. Hatcher, *Chairman*
The Dean
J. Dando
H. N. Fieldhouse
R. D. Gibbs
P. F. McCullagh
R. V. V. Nicholls
J. J. O'Neill
F. F. Osborne
Muriel V. Roscoe
W. B. Ross
H. Tate
D. L. Thomson
H. D. Woods

A complete list of the teaching staff of the University, including the Faculty of Arts and Science, is printed as a separate announcement which may be obtained from the Registrar's Office.

THE FACULTY OF ARTS AND SCIENCE

General Information

The undergraduate work of the University in Arts, in Pure Science, and in Commerce, is done in McGill College, usually called the Faculty of Arts and Science. The Dean of McGill College is the Dean of the Faculty of Arts and Science.

The work of the students who are candidates for the degree of Bachelor of Commerce (B.Com.) is supervised by the Director of the School of Commerce which is an integral part of the Faculty. The School of Commerce has a separate announcement.

Women Students

Women are admitted to the courses and to the degrees of the Faculty on the same terms as men.

Age of Admission

Except under special circumstances, no student under the age of sixteen is admitted to the First Year, or under the age of seventeen to the Second Year.

Period of Study for a Degree

The bachelor's degree may be obtained only by students who have regularly attended the prescribed courses for at least four years after being admitted into the first year or for at least three years after being admitted into the second year. Students are admitted into the third year only under exceptional circumstances and at least two full years of resident study in the Faculty are ordinarily required before the bachelor's degree can be granted.

Classes of Students in the Faculty

(1) *Regular Undergraduates:* Students with complete matriculation qualifications taking the regular work of their year towards the B.A., B.Com., or B.Sc. degree.

(2) *Limited Undergraduates:* Students with complete matriculation qualifications who find themselves unable because of ill-health or other circumstances to complete their degree work in the required four years may, with the Dean's permission, extend their course beyond the required period but must complete it within eight years.

Limited Undergraduates are not eligible for scholarships, medals, bursaries or prizes of any description and may not read for an Honours Degree.

(3) *Partial Students:* These are students who are not registered as proceeding to a degree but who are allowed to take one or more lecture courses. Partial students must obtain the Dean's permission to register and must satisfy the lecturer in the course concerned that they have sufficient ability to do the work in such a course. Applications may be refused because of limitation of space in lecture rooms and laboratories. A student who has tried and failed to pass matriculation is not allowed to register as a partial student except under special circumstances.

In the courses they are taking, if any credit is desired, partial students must fulfil all the requirements of classroom work and tests prescribed for regular students.

A partial student who has successfully passed the courses of a previous year is not necessarily accepted at a later session.

Subject to the above limitations, lectures are open to partial students in both honours and general classes. Should a partial student acquire or subsequently be accorded regular standing by vote of the Faculty, his partial courses may by permission of the Faculty be counted toward a degree. Partial students are not eligible for medals, scholarships, bursaries, or prizes.

APPLICATION FOR ADMISSION TO THE FACULTY OF ARTS AND SCIENCE

All applications to enter the Faculty of Arts and Science must be made on forms which may be obtained from the Registrar's office. Each applicant from a High School should see that a confidential report is sent from his Principal to the Dean, since such a report is necessary for the consideration of the application. Completed applications must reach the Registrar before September 5th.

Each accepted candidate will receive a formal acceptance to a definite course and year and this must be kept for presentation at registration.

The number of admissions is limited and the College is not bound to accept applicants who have passed the required examinations.

ENTRANCE REQUIREMENTS

For the Session of 1947-48

See General Announcement for details

Students may be admitted into the Faculty as regular undergraduates after passing either the Junior or the Senior Matriculation Examination or an equivalent examination, in the requisite subjects. **A student with incomplete matriculation qualifications is not admitted as a regular undergraduate.**

First year: A student may apply for admission to the First Year of the B.A., B.Sc., or B.Com. courses after obtaining the necessary standing in the required subjects of the School Certificate Examination or one of the examinations recognized by the University as the equivalent.

Second year: A student may apply for admission to the Second Year of these courses after obtaining the necessary standing in the required papers of the School Certificate and Senior School Certificate Examinations or their recognized equivalents. Only in exceptional circumstances is a student who has not written and passed the School Certificate Examination or its equivalent admitted by Senior School Certificate. At least a good second class standing in Senior School Certificate or its equivalent is required for entrance to the Second Year.

A student who has been admitted to the first year and who has failed to advance to the second year is not permitted to obtain advanced standing by Senior School Certificate, but provided that he has not been excluded from further study for academic or other reasons, he is required to take the regular supplemental examinations of the first year if he desires to proceed in his course.

Students who are admitted to the B.A. course without having satisfied the requirement of the classical language must include in their programme a classical language for two years: all applications for exemption from the classical requirement must be submitted to the Dean prior to registration.

Candidates for admission to the second year of the B.A. course may offer a third foreign language for Mathematics at matriculation only if they have passed in the Elementary Mathematics of the School Certificate or of some equivalent examination.

The Dean of the Faculty of Arts and Science may, at his discretion, admit a student who has substituted one of the other optional subjects for Mathematics if

(1) the student has already passed the School Certificate, or some equivalent examination, in Elementary Mathematics;
(2) the record of the student shows sufficient promise to justify this concession.

Students may be admitted to the second year in the B.A. course with School Certificate German or Greek or Spanish as one of the five subjects required if they have not previously taken that subject for the School Certificate.

Full details of these examinations are given in the School Certificate Announcement which may be obtained from the Registrar's Office.

Third year: A student may apply to enter the Third Year by submitting application forms as for first and second years together with the necessary certificates of attainment.

In exceptional cases candidates are accepted to a year in which they already have some credits and are then permitted to take one or more courses in the next year.

LENGTH OF SESSION 1947-48

REGULAR SESSION

The regular session of the Faculty consists of two terms as follows:

First term: From Wednesday, October 1st, to Saturday, December 20th, 1947. Mid-session examinations in completed courses begin on Monday, January 5th, 1948.

Second term: From Monday, January 12th to Friday, April 16th, 1948. Final examinations in all courses will begin on Wednesday, April 21st.

SUMMER SCHOOL, 1947

In order to accommodate those ex-service students who began their studies on January 6th, 1947, a *second term* will begin on Monday, June 2nd and conclude on Wednesday, August 13th.

During this period instruction will be available for those who wish to take summer courses in order to improve their educational status. Such courses will not permit regular students to accelerate their work for the B.A., B.Com., or B.Sc. degree.

Unlike the Summer Sessions of 1945 and 1946, no students will be allowed to enter for a full sessional study this summer.

Applications to take courses in the Summer School should be made to the Assistant Dean's Office, Arts Building, before May 1st. A special Arts and Science Summer School Announcement is available.

SUMMER SCHOOL IN FRENCH

The Summer School in French will be held this year from Friday, June 27th to Friday, August 8th.

Its courses are distributed among three Sections: A, B, and C, one of which, Section A, is below college standard. They deal with the various aspects of language study as well as literature and civilization. Courses in spoken French are divided into small classes for the purpose of intensive oral drill. In this respect the School definitely supplements the instruction given in the Department in the winter session, when such oral practice is only incidental to the subject-matter of the courses offered and never the primary objective. It should be noted that the first year course given in the French Section of the Department of Romance Languages is not a beginner's course and is conducted, like all others, entirely in French. (The standard qualification for admission into Section A is two years of High School French).

For this reason students who find it difficult to understand, speak or write French are recommended to avail themselves of the special facilities which the school offers in its three sections, and particularly in Sections A and B for a systematic study of the Language, Oral and Written. Section C is specially intended for graduate students or students interested in pursuing higher studies in French.

With the Faculty's permission, courses in Sections B and C may be counted towards the Bachelor's degree in cases where students need to make up the number of courses normally required for the degree. Students in Section C, who attend the School for at least four Sessions and satisfy the requirements, can obtain a M.A. in French without having to reside at McGill during any of the winter sessions.

Students will receive most benefit from the courses offered by the School if they choose to reside at one of the French Houses, where the use of French at all times is compulsory. The main French House will be Douglas Hall, an attractive residence on the slope of Mount Royal, where students all have single study-bedrooms. Members of the teaching staff live in residence with the students and are constantly in helpful and friendly relationship with them. This informal education through daily associations in the Common Room, at meals, and in the social activities of the School—which include sports, music, dramatics and conducted visits through the beauty-spots of the Province of Quebec—is one of the most valued features of the School.

Reduced railway fares from all points in Canada have been arranged.

With the renewed possibilities of communication between France and this continent, the School will this year have an unusually large number of instructors who have very recently come from France. The Visiting Professor for the Session will be Dr. Julien Durand, former Minister of Commerce and Post Master General of France for a long period. The Dramatic activities of the School will be under the supervision of Prof. S. Chambrillon, formerly on the staff of the Dramatic School directed by the celebrated French Actor, Louis Jouvet.

Applicants should address their inquiries to:

Professor J. L. Launay, Director, French Summer School, Arts Building.

SUMMER SCHOOL IN GEOGRAPHY

This new Summer School will have its inaugural session at Stanstead College, Stanstead, P. Q. between Monday, June 30th and Monday, August 11th. A wide variety of courses is offered and the staff of the Department will be re-enforced by notable Visiting Professors.

Applicants should address their inquiries to Professor G. H. T. Kimble, Director, Summer School in Geography, Arts Building.

FEES

The regular and special fees payable by students in the Faculty of Arts and Science, including the School of Commerce, are shown below. The University reserves the right, however, to make changes without notice in its published schedule of tuition, residence, and other fees.

TUITION:

REGULAR UNDERGRADUATES:

Sessional Fee: Arts	$234.00
Science	257.00
Commerce	253.00
Courses repeated or substituted by Conditioned Students, per course	10.00

LIMITED UNDERGRADUATES—(Arts, Science and Commerce):

1st and 2nd years, per course	55.00
3rd and 4th years, per course	65.00

PARTIAL STUDENTS—(Arts, Science and Commerce):

Each full course	60.00
Each half course	30.00
Courses in Physical Education by Arts students, per hour, per week	5.00

a) The maximum fee charged to Partial Students will not exceed the full sessional fee payable by Regular Undergraduates.

b) Graduates of this University taking undergraduate lectures for which no academic credit is sought will pay one-half the Partial Students fee, with a maximum of $150.00.

c) Graduates of the Faculty and graduates of other Universities attending full courses in affiliated Theological Colleges who are taking undergraduate lectures for which credit is sought, will pay the full Partial Students fee, with a maximum of $150.00. This does not apply to courses for which there is a special fee.

d) Partial students, not paying the maximum sessional fee payable by Regular Undergraduates, who desire the full undergraduate athletic and health service privileges, will pay an additional fee of 22.00

EDUCATION STUDENTS:

Students in the Graduate Year taking the High School Diploma Course, sessional fee	$147.00

SUPPLEMENTAL EXAMINATIONS—(not payable by instalments):

For students permitted by the Dean to make application to write supplementals, each examination..... 10.00

NOTE: The fees listed above include all the regular charges of the University for registration, tuition, health service (where applicable), laboratories, libraries, physical education and sports (where applicable) and graduation (except *in absentia*). Special fees and penalties are shown below.

INSTALMENT FEE:

Fees, if desired, may be paid in two instalments, the first due on the dates shown below, and the second instalment due on the 1st of February following. For this privilege the fee (payable $2.50 with each instalment) is..... 5.00

STUDENTS SOCIETIES:

The University collects, on behalf of the Students Societies, the following fees from Regular and Limited Undergraduates..... 10.00

The men's fee is distributed as follows: McGill Union $3.50; McGill Daily $1.50; Students' Executive Council $4.00; Undergraduate Society $1.00.

The women's fee is distributed as follows: Women's Union $3.50; McGill Daily $1.50; Students' Executive Council $5.00.

Engineering Undergraduates' Book Service..... 10.00

GROUNDS FEE:

For the use of outdoor games facilities, including tennis courts and rinks. Fee payable by Partial Students who do not pay for full athletic and health service privileges..... 5.00

HEALTH SERVICE:

Fee payable by Partial Students who do not pay for full athletic privileges and health service..... 7.00

BOARD AND RESIDENCE:

DAWSON COLLEGE:

Single students—

One, two or three in one room.....	$45.00	per month
More than three in one room.....	39.00	" "

Married students—

Husband and wife in one room.....	70.00	" "
Couple with one child in suite of two rooms.....	80.00	" "
Extra for each additional child.....	5.00	" "

Health fee for the Session (all students in Residence)... $3.00

PETERSON RESIDENCES:

Single students (2 in room)	$40.00	per month
Married students—		
Husband and wife in one room	75.00	" "
Husband and wife, or with one child, in suite of two rooms	85.00	" "
Extra for each additional child	5.00	" "
Health fee for the Session (all students in Residence)		$3.00

WILSON MEMORIAL HALL—(for men):

Normal fee for students in Arts, Science and Commerce	468.00
Additional periods beyond regular session, per diem	2.00

DOUGLAS HALL—(for men):

Normal fee for students in Arts, Science and Commerce	478.00
Additional periods beyond regular session, per diem	2.00

ROYAL VICTORIA COLLEGE—(for women):

Sessional fee	453.00
Additional periods beyond regular session, per diem	2.00

MCLENNAN HALL—(for women):

Sessional fee; Single Rooms 453.00, other Rooms	378.00
Additional periods beyond regular session, per diem	2.00

STRATHCONA HALL—(for women):

Sessional fee; Single Rooms 403.00, Double Rooms	378.00
Additional periods beyond regular session, per diem	2.00

A. N. A. House—(for women):

Dormitory accomodation	$40.00	per month
Health fee for the Session		$3.00

ROOM DEPOSIT:

A room deposit of $10.00 for Douglas Hall and $20.00 for other residences is required before June 1st each year in order to reserve a room for the next session. Application, accompanied by remittance, should be made to the Warden of the residence concerned. The deposit should be deducted when paying fees

MISCELLANEOUS FEES:

GRADUATION *in absentia*	$10.00
DUPLICATE DIPLOMA	10.00
CERTIFIED COPY OF STUDENT'S RECORD	1.00
ADDITIONAL COPIES (at same time), each copy	.50
CERTIFICATE OF EXEMPTION FROM MATRICULATION	2.00
LIBRARY FEE—for use of the University Library by graduates of this and other Universities, annually	5.00

PENALTIES:

LATE REGISTRATION—(unless excused by the Dean):

For registration after September 27th or 30th, 1947	$ 5.00
For registration after October 4th or 7th, 1947	10.00

LATE MEDICAL EXAMINATION—(imposed by University Medical Officer):

For examination within one week after the regular period allotted 5.00

For examination more than one week after the regular period allotted 10.00

LATE PAYMENT OF FEES:

For payment of fees after October 3rd 1947 ..... 2.00

For payment of second instalment of fees after February 1st, 1948 ..... 2.00

DATES OF PAYMENT:

The University does not issue bills for fees. Each student is required, at the time of registration, to complete a form giving full details of his fees for the session. This form provides a detailed statement to accompany remittances sent in by mail.

Fees are due and payable at the Bursar's Office during the hours 9:00 A.M. to 4:00 P.M., Saturday 9:00 A.M. to 12 noon, from Thursday, September 25th, 1947 to Friday, October 3rd, 1947 inclusive. If desired, fees may be remitted by mail on or before the due dates. A late fee of $2.00 is charged for payment after the specified dates.

PAYMENT OF FEES BY INSTALMENTS:

Fees may be paid in two instalments, one at the beginning of the session, and one on February 1st. In such cases the Instalment Fee of $5.00 is charged.

1ST INSTALMENT:

Divide Tuition, Board and Residence, and Instalment Fees in half. All other fees and deposits are payable in full with first instalment.

2ND INSTALMENT:

Balance of Tuition, Board and Residence, and Instalment Fees.

Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the following paragraph:

Immediately after the prescribed dates for the payment of fees the Bursar will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant.

REGULATIONS CONCERNING REMISSION OF FEES TO STUDENTS WHO LEAVE THE UNIVERSITY DURING THE COURSE OF THE ACADEMIC YEAR

1. Students withdrawing from the University must cancel their registration at the Registrar's Office.
2. In the case of students who, in spite of the fact that they leave the University before the end of the academic year, receive full credit for the year towards their degree, there shall be no refund of fees.
3. In the case of students who leave during the academic year and do not receive credit beyond the period of their attendance the fees shall be remitted on the following basis:
   (a) In those Faculties where the academic year is divided into two terms, half of the annual fees shall be remitted to a student who leaves prior to the beginning of the second term.
   (b) In those Faculties where the year is divided into three terms, one-third of the fees shall be returned for each term that begins after the departure of the student.
4. No fees shall be refunded for any term during which the student has attended classes, even though he leaves before the term has finished.
5. Residence fees are payable for the full academic year and shall not be refunded.
6. Students' Activities fees shall not be refunded.

SCHOLARSHIPS, PRIZES, MEDALS, AND LOAN FUNDS

Details of Scholarships, Bursaries, Prizes, Medals, and Loan Funds are given in the Scholarships Announcement which may be obtained from the Registrar's Office.

REGISTRATION

Monday the 29th of September is Freshman Day and all students entering the Faculty of Arts and Science for the first time are required to attend a meeting to be held in Moyse Hall on that morning at 9 o'clock.

Registration in upper years will start on Thursday the 25th of September and will continue through to Friday.

After September 30th a special late registration fee must be paid (see page 717).

No student will be admitted after October 14th except by special permission of the Dean.

Women students of the Faculty, after registration, are required to register separately for the Royal Victoria College, giving their names, home addresses and addresses in Montreal. Women students of the Faculty not residing with their parents or guardians in Montreal, who do not apply for residence in the College, are required to submit their plans for residence in writing to the Warden and to obtain written approval.

REGISTRATION PROCEDURE

Each regular undergraduate must be registered for the courses and year for which he has been accepted. Limited undergraduates and Partials must obtain approval of their courses from the Dean's Office before proceeding to register.

ALL STUDENTS INTENDING TO TAKE AN HONOURS COURSE MUST OBTAIN THE APPROVAL OF THE CHAIRMAN OF THE DEPARTMENT OR DEPARTMENTS CONCERNED BEFORE REGISTRATION.

Courses of study for the B.A. and B.Sc degrees are laid down on pages 728 to 737 and details of these courses are found in pages 738 to 834. At the end of the description of the courses provided by each Department will be found the requirements for Honours.

A special time-table will be provided so that students may avoid conflicts in the courses which they elect to take.

An "extra" course may be taken in any year of the General course provided that the student has obtained an average of 65% in his previous year. This "extra" course is not included in his sessional rating, but, if he wishes to apply for credit for it later, he must pass the regular examinations and have taken all the essay and laboratory courses required.

No ordinary undergraduate may attend classes in any course for which he is not registered.

CHANGING COURSES

Students who wish to change the courses for which they have registered must apply to the Dean's Office for permission to do so. This permission may be granted provided that such changes do not involve conflicts in their time-table or destroy the required sequence of courses.

A student in Commerce must first obtain the approval of the Director of the School of Commerce. A student taking an Honours course must first obtain the approval of the Chairman of the Department in which he registered for Honours.

No change will be permitted after October 18th.

EXEMPTIONS

Exemption from a course may be granted a student if he satisfies the instructor in that course and the Dean's Office that he has completed its equivalent. If so exempted, he must take another course to replace it on his list of requirements for that year.

DEGREES AND COURSES OF STUDY

The Faculty of Arts and Science offers courses of study leading to three degrees:

Bachelor of Arts (B.A.)
Bachelor of Science (B.Sc.)
Bachelor of Commerce (B.Com.)

The courses offered by the Faculty are grouped in four ways in order to secure a co-ordination and integration of the courses of study—viz.: the Humanities, Social Studies and Commerce, Physical Sciences, and Biological Sciences.

A course of study for the Arts degree is predominantly concerned with the Humanities, comprising language, literature, and philosophy, and the Social Studies, economics, education, geography, history, political science, sociology.

A course of study for the Science degree emphasizes the Physical Sciences, mathematics, chemistry, geology, and physics, and the Biological Sciences, anatomy, bacteriology, biochemistry, botany, genetics, physiology, psychology and zoology.

The School of Commerce offers four years of undergraduate work leading to a degree of Bachelor of Commerce. The work of each year will normally consist of five courses each of three class sessions per week, which sessions may be in the form of lectures, demonstrations, laboratory or discussion periods, depending on the course. A student will therefore have about fifteen hours a week of class meetings. The balance of his time will be devoted to readings, problems, the preparation of reports, essays and theses, and extra-curricular activities.

The curriculum leading to a B.Com. degree consists in part of compulsory courses and in part of optional courses chosen in accordance with the student's individual interests. Thus in the first year Economic History, Accounting, Mathematics and English are compulsory and one course in French or Spanish or German is chosen by option.

All students must consult the Director of the School before registering for the course in any year. The Announcement of the School of Commerce is obtainable at the Registrar's Office.

In the case of both the Arts and the Science degrees the course of study includes one or more subjects from other groups than the particular one in which the major part of the course of study lies.

There are two distinct kinds of degree conferred in Arts and Science, the General Degree and the Honours Degree.

A student proceeding to a General Degree has a wide range of subjects from which to choose his courses but he must concentrate from the Second Year onward on two subjects called *Continuation Subjects* and he must select one or more courses in other subjects so that there may be a proper distribution of his studies. The continuation subjects are chosen from a list of those which are laid down as appropriate to the degree for which the student is a candidate. A full course (or two half-courses) must be taken each year in each of these two continuation subjects. The elective courses necessary to make up the work of each year should be chosen by the student so that he may fulfil (*a*) the requirements of that particular year and (*b*) the prerequisite requirements of any course that he wishes to take in the following year.

When the student's record during his Second, Third and Fourth Years of the General Course averages a high second class standing a special award of Distinction is made at graduation. When the record averages first class standing the award made is Great Distinction.

A student proceeding to an Honours Degree chooses either (*a*) one subject or (*b*) two cognate subjects in which to specialize. He will also take courses in other subjects selected with the approval of the department or departments in which he is studying. In most departments the honours courses begin in the Second Year; but even in these departments in the case of students of exceptional merit they may be commenced in the Third Year. The student must attain at least second class standing each year in order to continue in the course for the honours degree. The whole record during the Second, Third and Fourth Years is taken into consideration at graduation and honours are awarded by the Faculty on the recommendation of the department or departments in which the student has elected to study

A student who is qualified by matriculation to proceed to the B.A. or B.Sc. degree and who does not know at the beginning of his first year which degree he desires to obtain, may qualify to enter the second year leading to either of these degrees by taking in his first year—English, Mathematics, a Language, Physics and Chemistry. This is known as the **"Common first year"** and the student pays the fee required for the first year B.Sc. course.

CONCERNING STUDENTS WHO INTEND TO PROCEED INTO THE PROFESSIONAL FACULTIES

Each regular undergraduate in the Faculty is required to register for one of the three bachelor's degrees offered, and, unless otherwise instructed by the Dean, must follow the regular work of his year towards this degree.

Although there are no specially organized courses for preparing candidates for other faculties, it is possible to include the prerequisites to entrance to these Faculties within the framework of the B.A. and B.Sc curricula. Students intending to enter one of these faculties later should acquaint themselves with the entrance requirements as shown in the General Announcement.

Architecture and Engineering: A satisfactory first year in the B.Sc. course is acceptable for entrance to the first year of the B. Arch. and B.Eng. degree courses. This includes English 2, Chemistry 11, Physics 11, special courses in Mathematics and an elective course (if necessary) to make up five full courses in all.

Dentistry: At least two years of the B.A. or B.Sc. courses are required for entrance to first year Dentistry. If a student wishes to enter after two such years he must take Physics 11 and Chemistry 11 in his first year in Arts and Science; the other subjects required are Chemistry 22 and Zoology 11a and 11b.

Law: A minimum of two years in the Faculty of Arts and Science is required for admission into the Faculty of Law. Nevertheless, candidates proceeding to the Bar of the Province of Quebec must be British subjects, hold the degree of B.A. from a Canadian or British University and satisfy the Bar examiners that they have successfully completed "the regular course in Philosophy" in an approved university. Students are advised to take this course in philosophy before entering the Faculty of Law. The following courses are available: Philosophy 1, 2, 3 and 4 (see page 803). In addition candidates are expected to have a working knowledge of French.

Medicine: The Faculty of Medicine offers the following advice to students proceeding in pre-medical studies at McGill:

1. Absolutely required are courses in Physics, General and Organic Chemistry, and Biology. These requirements can be met by passing Physics 11; Chemistry 11 and 22; and Botany 11a or Zoology 11a followed in either case by Zoology 11b.

2. Other courses chosen for three pre-medical years should be so planned as to give the student more than elementary training in some definite field of knowledge, which may be selected from the Humanities, the Social Sciences, or the Physical or Biological Sciences. The curriculum for the three years should therefore be planned as a whole, so as to emphasize the selected field. Study in this field should be continued by students who fail to gain admittance to medicine after three years.

3. The curriculum must be in harmony with the requirements of the Faculty of Arts and Science for the B.A. or B.Sc. degree. English 2 and Mathematics will be taken in the First Year. Continuation subject requirements must be complied with, and these subjects should be related to and reinforce each other, in the spirit of paragraph 2.

4. Students taking a pre-medical course within the B.A. curriculum are advised to take English, Mathematics, Physics, Latin and an elective course (preferably leading to the field of specialization) in the First Year; Chemistry 11 and Biology, the continuation subjects, and a modern language in the Second Year; Chemistry 22, two courses in one continuation subject and one in the other, in the Third Year.

5. Students entering through the B.Sc. curriculum will ordinarily complete the required courses (paragraph 1) very quickly and can proceed to specialize in the selected field. Those who expect to enter Medicine after three years are advised against taking prematurely the medical subjects such as Physiology, Biochemistry, Bacteriology, and Histology. There is, however, a definite place in Medicine for students who have completed an Honours course or a Master's degree in one of these sciences, or in Chemistry, Physics, etc.

6. Courses which are of value as preparation for medical studies, and of which some may be taken as electives or as extras if the curriculum in the major field permits, include Botany 11a, Zoology 11a, Genetics 21A, Psychology 21, Sociology 1, Genetics 21B, Zoology 21.

7. The Graduate Record Examination should be taken in the second term of the Second Year or the first term of the Third Year.

ATTENDANCE

1. Students of the first and second years and all partial students (page 711) and students on probation (page 727) are required to attend at least seven-eighths of the total number of lectures or laboratory periods in each course. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course are not permitted to come up for the regular examination in that course, and those whose unexcused absences have exceeded one-fourth must repeat the work in that course.

Excuses for absences in excess of one-eighth are dealt with only by the Dean and are not entertained except in cases of serious illness (which must be vouched for by a proper medical certificate), domestic affliction, and such other cases as are provided for by special regulations of the Faculty. Medical certificates covering absences must be presented at the Dean's office by the student immediately after his return to University work. Such certificates are filed, and, if they are accepted, the Dean gives the student a statement excusing the absences covered; this must be shown to all the professors concerned as promptly as possible.

2. Credit for attendance at any lecture or class may be refused on the grounds of lateness, inattention, neglect of study, or disorderly conduct in the class room or laboratory. These cases are dealt with by the Dean of the Faculty.

3. Lectures commence at five minutes after the hour, on the conclusion of the roll call. After the commencement of a lecture students are not allowed to enter, except with the permission of the Professor If permitted to enter, they report themselves at the close of the lecture and are marked "late." Two lates count as one absence. Lectures end at five minutes before the hour. In cases where it is impracticable to record late attendance, students who are not present at the commencement of the lecture are marked absent.

EXAMINATIONS

INTERIM TESTS

There are two regular interim tests for all students of the First Year, the first being held near the middle of November and the second during the week preceding the Christmas vacation.

The test is usually the equivalent of a standard examination of one hour.

Students who fail in more than one-third of these tests are not allowed to be members of a College athletic team, to hold office in any College society, or to take part in any major student activity.

MID-SESSIONAL EXAMINATIONS

There are no regular mid-sessional examinations in January except in courses which are given only in the first term, and in these courses the examination may be held in May with the other final examinations if the Department so desires. Members of the teaching staff may, however, give from time to time such interim examinations as they think necessary.

FINAL EXAMINATIONS

The final examinations are held in April and May.

PASS MARK AND CLASSES

The pass mark in all examinations is 50 percent. Students who pass in an examination are grouped into three classes: First, Second, and Third. The lowest mark for First Class standing is 80 percent, the lowest for Second Class standing is 65 percent, and the remainder of students who pass obtain Third Class standing.

ADVANCEMENT TO REGULAR STANDING IN ANY YEAR

An undergraduate is in regular standing only if he has completed all the courses of his previous years.

A student who does not pass in at least 60% of his courses in the May examinations shall be required to discontinue studies in the Faculty.

An undergraduate who has not passed all his examinations in May and has not been required to leave the university, will have his standing determined in September, on the results of the regular supplemental examinations.

REGULATIONS CONCERNING SUPPLEMENTAL EXAMINATIONS

A student who has failed in *one or more* courses is expected to write the regular supplemental examinations in these courses in the following September, if the regulations permit him to do so.

A student who fails to pass a supplemental examination in September or who is prevented by illness or other compelling reason from writing, may apply to the Dean for permission to write the next regular examination, normally in May, provided that there is no conflict in the examination time-table.

All applications for supplemental examinations must be made to the Dean in writing and must reach the office of the Dean before August 15th (for the September supplemental examinations), December 1st for the regular examinations of first term courses and March 15th for the May sessional examinations if written as supplemental examinations.

The fee for all supplemental examinations, including the regular examinations of the first term or of the session, is $10 for each paper. The fee is payable to the Bursar as soon as the application for supplementals has been approved.

ADVANCEMENT WITH CONDITIONS

If after the supplemental examinations in September a student still has a failure in *only one full course* or two half-courses of the year he is attempting to complete, he may proceed to the following year *conditioned* in this course or in these two half-courses.

A student who has been conditioned in any course for a year is not promoted until the condition is removed. As an example, a student of the second year conditioned in a first year course must complete this course before he can enter the third year. Also, if the course in which he is conditioned is prerequisite to other courses in that subject, he may not take such other courses until the condition is removed, unless he receives special permission from the Department concerned.

A student may remove a condition either by passing a supplemental examination in September or by taking the regular examination in the course as a supplemental or, if the course is not compulsory, by substituting for it a different course, by permission of the Dean. The condition is not removed if the student fails to pass such a substituted course.

The student must register for the substituted course at the beginning of the session and pay a special fee of $10.00 for the substitute course (one full course or two half courses). There will be no supplemental fee required in the case of substitute courses.

FAILURE TO ADVANCE: PROBATION

1. A student who after the September supplemental examinations is not qualified to proceed either as a regular or as a conditioned student may be placed on probation if his standing warrants it.

Example: A second year student who has failed to remove a first year condition, or a student who has failed in more than one full course of the past session, but not in more then half his courses for that session.

2. A student is permitted to remain on probation for only one year.

3. A student on probation is required to take an additional year of study consisting of at least four courses and is registered in the year which he has not completed. Courses required for the student's degree must be repeated in the year of probation if the student has previously failed in them. The remainder of the courses are selected with the approval of the Dean.

4. All the courses of the year of probation must be passed before the student will be admitted to regular standing.

5. Courses taken to fulfil the requirements of the year of probation can not be credited to a subsequent year of regular standing.

FAILURE TO ADVANCE: TRANSFER

Any student who has failed in any year of one of the three degree courses of the Faculty may not be admitted to the same year in courses for another degree in the Faculty except under extraordinary circumstances and by sanction of the Dean's Office.

GENERAL REGULATIONS GOVERNING HONOURS COURSES

The conditions for entering Honours courses in Second Year are as follows:

(*b*) The sanction of the Dean and of the departments in which Honours are elected must be obtained.

(*c*) No student may take Honours in a subject in which he has failed to attain at least second class standing in his First Year.

Honours students who fail to attain second class honours standing at the end of the Second or Third Year must revert to the General course in their next and following year or years and fulfil its requirements unless they obtain special leave to continue their honours work from the department or departments interested.

An Honours student who has failed in any subject in the Third Year examinations is not allowed to continue his Honours course except with the consent of the Faculty.

A student's whole record during his Second, Third and Fourth Years will be considered in awarding Honours at graduation.

Students in Honours courses who fail to attain second class honours at graduation, or who succeed in attaining second rank honours only in one of two combined courses, must revert to the list of General students and if they are unable to satisfy the requirements of the General degree they will not be granted a degree.

Honours are awarded by the Faculty on the recommendation of the department or departments in which Honours are elected.

SUBJECTS AND COURSES REQUIRED FOR THE DEGREE OF BACHELOR OF ARTS

Every candidate for the B.A. degree must meet certain requirements whether he is proceeding towards an Honours or a General degree. A course in English, in Classics (Greek or Latin), and in Mathematics is required in the First Year of study.

With the Dean's permission a student may be allowed to replace Mathematics by a first year course in another subject in which he has shown marked proficiency and which is in accordance with the trend of the studies that he is proposing to pursue. A student may also be granted exemption from the first year Classics requirement under special circumstances; application for such exemption must be made to the Dean prior to registration.

There is further required of all candidates for the degree a course in a modern foreign language, which may be taken in any year.

Where a student chooses to begin the study of a language in order to meet either the classics or the modern language requirement he must take and pass a further course subsequent to the elementary one to satisfy this language requirement. This rule applies, for example, to a student who begins the study of Greek or German or Spanish (there is no beginning course in French); in every case the elementary course alone will not satisfy the requirement for the B.A. degree. On the other hand a beginning course is given full credit when it is taken as a simple elective which is not to be counted towards satisfying the language requirement, except that in the Fourth Year such an elementary course is treated as only a half-course.

For the General B.A. degree there is further the requirement of one course in a science subject, which may be taken in any year. The combination of the two half-courses, Botany 11a and Zoology 11b, is also acceptable as filling this requirement.

A student proceeding to an Honours degree is not required to take a course in Science.

Credit for courses taken elsewhere can be granted only by the Department concerned.

In each of the First and Second Years five courses must be taken, that is, normally fifteen hours of class work per week; and in the Third and Fourth Years respectively, four courses, making twelve hours per week. The third hour each week in each individual course may be devoted to group conferences.

FIRST YEAR OF THE B.A. COURSE

(For both General and Honours Degrees)

(*a*) *Compulsory Courses:*
English 2.
*Latin or Greek.
*Mathematics.

(*b*) *Elective:*
Two of the following:
History.
Greek or Latin (if not already taken)
French.
German.
Spanish.
Science (Botany 11a and Zoology 11b or Chemistry 60 or Geography 12 or Physics 11).
Music.

Details of the work in each subject are given on pages 738 to 834.

Students seeking to qualify for the High School Diploma of the Province of Quebec have certain additional requirements to fulfil in both the First and Second Years. See page 764.

The student is normally free to elect *two* courses in the First Year which, together with the three compulsory courses, complete the total of five required for that year. In choosing his courses, however, the student is advised by those who are registering him to give careful consideration to his selection. These points must be remembered:

1. He has to consider the desirability of choosing a course in a modern foreign language; this may be taken in any year, but it is preferable to take it not later than the Second Year, because a student who subsequently elects to take an Honours course in some other subject than a foreign language may find it difficult to take this compulsory language course in the Third or Fourth Year when he is likely to be fully occupied with his Honours studies.

2. Unless he is intending to take an Honours course he has to choose, at some time or other during his four years, one of the science courses.

*(See page 728 for the exemptions in Classics or Mathematics in exceptional cases.)

3. If he has in view taking an Honours course he must be careful to select the course in the First Year which is the prerequisite for such Honours study in the Second Year. A student who intends to study a subject for Honours or Continuation is cautioned to look up the requirements of the appropriate departments, given on pages 738 to 834.

4. Before being admitted to Honours study in History the student is expected to have a knowledge of French and of Latin. The latter requirement may be satisfied by a first year college course following matriculation Latin or, at the discretion of the Department, by high ranking in Latin in the matriculation examination.

5. A student who intends to enter the Faculties of Medicine or Dentistry upon the completion of his third year must elect both Mathematics and Physics in his first year.

ADVANCED COURSES IN THE FIRST YEAR

Some departments giving instruction in the First Year offer special lectures or work of a more advanced character to students with adequate qualifications.

These advanced courses are generally arranged by the departments when lectures actually commence and there is in such cases no separate registration for them.

Students of scholarship standing entering the first year may, with the approval of the Dean, take second year courses in subjects for which they are especially qualified.

THE GENERAL B.A. CURRICULUM IN SECOND, THIRD AND FOURTH YEARS

At the beginning of the Second Year a student proceeding to a General B.A. degree must choose two subjects from those listed below in Division I. These two subjects are designated Continuation Subjects and are to be studied during the Second, Third and Fourth Years. A full course (or two half-courses) must be taken *each* year in each of the Continuation Subjects. The additional courses necessary to make the total of five for Second Year, and four for each of the Third and Fourth Years, may be chosen from any of the subjects shown in either Division I or Division II listed below. The student in choosing his elective courses may seek the advice of one of the departments in which he chooses a continuation course. A student may select only those courses for which he has the prerequisites laid down by the department in which such courses are given, and he is responsible for seeing that the courses chosen do not conflict as regards hours of lectures or laboratory periods.

A student is allowed to take an extra course only if he has obtained at least a second class average in his standing of the previous year.

SUBJECTS OF STUDY OFFERED FOR THE ARTS DEGREE

Division I (Continuation)

Economics
English
French
Geography
German
Greek
History
Latin
Mathematics
Philosophy
Physics (when taken as a Continuation Subject with Mathematics)
Political Science
Psychology
Sociology
Spanish

Division II (Electives)

Bacteriology
Biochemistry
Botany
Chemistry
Education
Genetics
Geography
Geology
Music
Physics
Physiology
Zoology

A course intended primarily for First Year students may be counted as a full course in the Second Year.

Students who are pursuing a double course in Arts and Science and Divinity (six years at least) may take in the Third and Fourth Years the courses which constitute the ordinary curriculum in Arts and Science, less a half course each year or a whole course in one year.

Honours lecture courses are open to properly qualified general students.

THE HONOURS B.A. CURRICULUM IN THE SECOND, THIRD AND FOURTH YEARS

General regulations governing Honours are found on pages 727, 728.

At the beginning of the Second Year a student proceeding to an Honours B.A. degree may elect to take full honours in one subject or half honours in each of two cognate subjects; these subjects must be chosen from the list given in Division I (see above). Information as to courses to be taken can be found at the end of the descriptive material listed by the appropriate department on pages 738 to 834.

Normally when a student takes honours in two subjects, his certificate on graduation will indicate that the work done in each of these two departments amounts to only half a full Honours course in that department: e.g. First Class Honours in English (one-half) and History (one-half), or First Class Honours in English (one-half) and Second Class Honours in History (one-half). But in the departments of Classics and of Economics and Political Science each of which is divided into two sections—Classics into Latin and Greek and Economics and Political Science into Economics and Political Science, honours in each of these

sections is equivalent to half-honours in another department and can be so combined; therefore the certificate on graduation will indicate these merely as honours: e.g. First Class Honours in Greek and Second Class Honours in Latin, or First Class Honours in Economics and Second Class Honours in History (one-half).

The attention of students interested in the origin of languages is directed to the courses found on pages 732, 755, 784.

A Second Year General student who shows exceptional merit in any subject in his Second Year examinations may, if he so wishes, and if the department is satisfied that his knowledge of the subject is sufficient to enable him to reach the standard of Honours by two more years' study, be allowed to take up the Honours course in that subject at the beginning of his Third Year.

Honours courses in the Second Year consist of 15 hours per week and in each of the remaining two years 12 hours, covering lectures, conferences and tutorial classes. The work also involves wide reading and in addition to the actual subjects of lectures, study in the general subject selected, in accordance with a definitely prescribed programme. Attention is drawn to the fact that lectures are not given on all parts of the work, and that the examinations for Honours are not necessarily conducted exclusively by the persons who have given the courses.

In the Second Year a student registering for Honours in one subject only, fulfils the requirement of fifteen hours by taking a minimum of two courses or six hours in his Honours subject, and, in addition, such other courses in other departments (bringing the total to fifteen hours) as the department under which he is studying may direct. A student registering for combined Honours in two subjects fulfils the requirement of fifteen hours by taking two full courses in each Honours subject, or twelve hours altogether, and, in addition, one other course (making a total of fifteen hours), such as the two departments under which he is studying may direct. In regard to Honours courses for the Third and Fourth years the student should consult the regulations of the individual departments under which he is working.

Departments are at full liberty to recommend their Honours students to take one or more courses in cognate subjects as the equivalent of courses in their own departments.

HONOURS COURSES OFFERED FOR THE B.A. DEGREE

Classics	History
Economics and Political Science	Latin
English	Mathematics
French	Mathematics and Physics
Geography	Philosophy
German	Psychology
Greek	Sociology

And combinations of the above.

SUBJECTS AND COURSES REQUIRED FOR THE DEGREE OF BACHELOR OF SCIENCE

An undergraduate may proceed to either a General or an Honours B.Sc. degree. As the distinction between these is not made until the second year (or, in some cases, the third year), there is a common curriculum to be followed by all first year students.

First Year of the B.Sc. Course

(a) *Compulsory Courses:*

English 2
Mathematics 11a, 12b
Physics 11
Chemistry 11

(b) *Elective:*

Botany 11a and Zoology 11b
or one of the following, if the time-table permits:—

French
Geography 1
German
Greek
History
Latin
Music
Spanish
Zoology 11a and Botany 11b

Pre-engineering students who have matriculated with only elementary mathematics must take the special courses in mathematics (page 790 (c)) and no Elective Course, so that they may attain during the year the standard required in mathematics for entrance to first year Engineering.

In special cases a qualified student may be granted permission to take either Botany 11, or Zoology 11, as the Elective Course subject to time-table arrangement. It is recommended that students intending to take an Honours course in Biological Science elect Botany 11a and Zoology 11b. More advanced courses are available also in Chemistry, Mathematics and Physics for those specially qualified or contemplating Honours.

THE GENERAL B.Sc. CURRICULUM IN THE SECOND, THIRD AND FOURTH YEARS

In each of these years five courses are required; these courses must be spread over at least four subjects, and must be selected from the groups given below. The student is also required to pursue a continued study of two subjects during the major part of his last three years for the General degree. The normal sequence of courses in any subject chosen for continuation is shown in Group I below. Since courses in Bacteriology, Biochemistry, and Physiology are usually begun in the third year, a student is not obliged to choose these subjects for continued study until the beginning of his third year; in other cases he may commence his continuation subjects at the beginning of his second year. In any year a specially qualified student may be allowed, upon the recommendation of the department concerned, to substitute a more advanced course for any of those listed.

A student is allowed to take an extra course if he has obtained at least a second class standing in his previous year's work.

Second Year Requirements

Three Science subjects from Group I; one Arts course from Group III and one course from Group I or II or III.

Third Year Requirements

Two Science subjects from Group I; one course from Group I or II; one Arts course from Group III, and one course from Group I or II or III.

Fourth Year Requirements

The same as for Third Year, the two subjects previously chosen from Group I being continued throughout this year. It is permissible, however, to drop one of these continuation subjects in the fourth year provided that two courses be taken in the remaining continuation subject; in this case the student's courses may be spread over three instead of four subjects.

GROUP I (Continuation Subjects)

SUBJECT	SECOND YEAR	THIRD YEAR	FOURTH YEAR
Biochemistry	See below	1.	3 or 4.
Botany	11 or 21 or 22b and 23a.	21 to 42.	21 to 42.
Chemistry	22 or 24.	23, 31, 32, 34, 35.	33, 42, 44, 44L, 45a, 46.
Genetics	21.	32a, 32b, 36b.	43b, 44, 45a, 47a or 47b.
Geography			
Geology	1, or 5 and 6b.	2a to 12b.	2a to 12b.
Mathematics	24 or 25.	36.	37 or 38.
Physics	21 or 22.	23 and (24b, 25).	(43, 44b) or (32, 35a) or 47.
Physiology	21.	31 or 32.	31 or 32.
Zoology	11 or 21, or 22 and 24.	21 or 22 and 24, or 32.	21 or 22 and 24, or 32.

If Biochemistry is to be taken as a continuation subject in the Third Year, Chemistry 22 and Physiology 21 must be taken in the second year.

A student who has not completed Botany 11 or Zoology 11 must obtain permission from the department concerned before proceeding to more advanced courses in these subjects.

Students selecting Physics as a continuation subject must also select Mathematics in the first three years.

GROUP II (Non-Continuation Subjects)

SUBJECT	COURSES
Bacteriology	4.
Biochemistry	1, 4.
Botany	11 to 41.
Chemistry	22, 23, 24, 31, 32, 33.
Geography	
Geology	1 to 12b.
Genetics	21a to 47a or b.
Histology	Anatomy 1a.
Mathematics.	14b, 15a, 23a to 28a, 36, 37, 38, 48.
Physics	21, 22, 23, 24b, 25, 32, 35a, 43, 44b.
Physiology	21, 31, 32.
Zoology	11, 21, 22, 24, 32.

GROUP III (Arts Subjects)

Economics and Political Science
Education
English
French
Geography
German
Greek
History
Latin
Music
Philosophy
Psychology
Sociology
Spanish

In selecting advanced courses students should consult the departments concerned.

Details of the courses are given on pages 738 to 834.

HONOURS COURSES FOR THE B.Sc. DEGREE

General regulations Governing Honours are found on pages 728, 729.

Honours Courses begin normally in the second year and are offered in the subjects listed below. Information as to courses to be taken can be found at the end of the descriptive material listed by the appropriate department on pages 738 to 834.

Attention is drawn to the fact that lectures are not given on all parts of the work. The examinations for Honours are not necessarily conducted exclusively by the persons who have given the courses.

HONOURS COURSES OFFERED FOR THE B.Sc. DEGREE

Bacteriology and Immunity
Biochemistry
Botany
Chemistry
Functional Biology
Geography
Geological Sciences
Mathematics
Mathematics and Physics
Physiology
Psychology
Zoology

HONOURS B.Sc. IN BIOLOGICAL SUBJECTS

First Year: As for General B.Sc. (Botany 11a and Zoology 11b, or, in special cases, Botany 11a and 11b, or Zoology 11a and 11b, should be taken as the Elective Course).

Second Year: The second year requirements have been made to give the student the widest possible latitude. Approaches to any particular biological subject may be found under the respective departmental announcement, together with the detailed curricula for the third and fourth years.

General second year requirements are as follows:

Chemistry 22, 24; three courses out of Botany 11, Genetics 21, Geology 1, Physiology 21, Zoology 11, Chemistry 23, Mathematics 24, Physics 21 or 22.

HONOURS B.Sc. IN FUNCTIONAL BIOLOGY

Students taking the First and Second Year curricula for the Honours degree in Biological subjects may proceed, as already indicated, to Honours in Bacteriology, Biochemistry, Botany, Physiology, or Zoology. Alternatively they may proceed to this Honours course in Functional Biology, postponing final specialization in one or other of the subjects listed above, or in Genetics, until postgraduate years. The degree in Functional Biology affords a balanced study of animals and plants as living organisms, and is a basic training for any biological science.

Curriculum

Note: Students are reminded that courses chosen in any year may affect their freedom of choice in subsequent years either because of time-table conflicts or because certain prerequisite courses have not been taken.

Students must submit their proposed programme of studies to the Group Chairman and must obtain his approval before they will be permitted to register for this Honours course.

Prerequisite. General First Year B.Sc. course with the required standing. Botany 11a and Zoology 11b, or Botany 11 or Zoology 11, should be taken as the Elective course.

2nd Year. As for Honours B.Sc. in Biological subjects, including the completion of Botany 1 and Zoology 11.
the completion of Botany 11 and Zoology 11.

3rd Year. Five courses out of:
Bacteriology 4, Biochemistry 1, Botany 22b, 23a, 31, Chemistry 23, Genetics 21, or one full course from 32a, 32b, 36b, 43b, 44, 45a, 47a or b, Mathematics 24 or 25 or 38, Philosophy 1, Physics 21 or 22, Physiology 21, 31a, 31b, 32a, 32b (one full course), Zoology 21, 22, 24, 25 (not more than 2 full courses).

4th Year. Five courses out of:
Bacteriology 4, Biochemistry 1, 4, Botany 22b to 42, Chemistry 23, Genetics 21a to 47b, Mathematics 24 or 25 or 38, Physics 22 or 23, Physiology 21, 31a, 31b, 32a, 32b, Zoology 21, 22, 24, 25.

COURSES OF LECTURES IN ARTS AND SCIENCE

The following pages show the courses offered in the Faculty arranged according to Departments. These courses are listed by numbers and where a small letter follows a number the term in which the course is given is indicated: e.g., Botany 11a is given in the first term (October to January), Economics 341b in the second term (January to April).

In addition the words "full course," "half course," etc. indicate the course value. The letter L indicates laboratory and S a special course.

Where a new system of numbering has been adopted, e.g., in Economics and Political Science, the *former* course numbers are shown in brackets immediately after the *new* ones.

Unless otherwise stated, a full course begins in October and ends in April, whereas half courses are given in the term indicated. The number of hours of lectures given each week is shown immediately below the number of the course and laboratory or conference hours are indicated separately.

An official time table is prepared for the registration period; any other times shown herein are only tentative.

It is the responsibility of each student to make sure that there is no conflict in the time table of the courses for which he registers. Any course may be cancelled because of insufficient registration.

ANATOMY

Professor of Anatomy . . . . . C. P. MARTIN
Associate Professor of Histology . . . . . C. P. LEBLOND
Assistant Professor of Anatomy . . . . . D. S. FORSTER
Assistant Professor in Anatomy . . . . . S. M. FRIEDMAN
Lecturer in Anatomy . . . . . E. WALTER WORKMAN
Lecturer . . . . . STANLEY M. BANFILL
Teaching Fellow . . . . . J. B. WALLACE

Before registering for the following course, students must consult the Chairman of the Department to ensure that they are qualified to undertake the work.

MICROSCOPIC ANATOMY

1a. HISTOLOGY. (Half Course)

The course, which corresponds to Anatomy 5 in the medical curriculum, consists of three weekly classes during the first half year. The course begins at the opening of the medical session, in September. One lecture and one lab period per week from September 6th to January 24th.

Text: Bailey, Textbook of Histology.

ARCHITECTURE

ART 1. HISTORY OF ART (Eng. 5 and 27). (Half Course)
Dr. Lismer.

This course is a chronological survey of the changes in painting and sculpture from pre-historic times to the present day. 24 lectures of one hour. 24 three hour periods in drawing, painting and modelling, and experiments in the forms and techniques of historic style. Illustrated notes are required.

ART 2. THEORY OF DESIGN AND AESTHETICS (Eng. 6 and 28).
(Half Course)
Dr. Lismer.

This course describes the foundation of aesthetics and the character of design, form, colour, taste and their relationship to nature and the arts in industry and in modern life. 24 lectures of one hour. 24 three-hour periods in drawing, painting and modelling with practical experiments in design form. Illustrated notes are required.

BACTERIOLOGY AND IMMUNOLOGY

Professors . . . . . E. G. D. MURRAY, FREDERICK SMITH

Assistant Professors . . . . . C. D. KELLY, D. S. FLEMING, G. G. KALZ, J. W. STEVENSON

Lecturers . . . . . J. DE VRIES, G. D. DENTON, D. S. NUNES

Demonstrator (Teaching Fellow) . . . . . .

Research Associate . . . . . CATHERINE MACPHERSON

In addition to its courses in the Faculty of Medicine, the Department offers the following to students in the Faculty of Arts and Science:

3. BACTERIOLOGY AND IMMUNOLOGY *for Honours B.Sc.* (3 Full Courses)
Oct. 1st to April 18th: Three lectures per week and two laboratory periods.

The class is limited in size and priority is given to Honours students in their fourth year. Partial students in the Faculty of Arts and Science and in the Faculty of Graduate Studies are admitted only if they have suitable qualifications and if there are vacancies.

77 lectures and 308 hours practical work with 50 hours discussion periods through the year (3 full courses). Biochemistry 5 (lectures only) is compulsory. One other course is to be selected by the students.

4. ELEMENTARY BACTERIOLOGY (Full Course)

Jan. 10th to April 18th: Three lectures per week and two laboratory periods.

43 lectures and 81 hours of practical work.

Available also to Graduate Students.

For the above courses students must provide themselves with microscopes; these may be hired from the Purchasing Department.

Texts: Hans Zinsser & S. Bayne-Jones, Textbook of Bacteriology (Appleton); R. Muir & J. Ritchie, Manual of Bacteriology (Oxford University Press); R. T. Hewlett & James McIntosh, Manual of Bacteriology (Churchill); T. J. Mackie & J. E. McCartney, Practical Bacteriology (Livingstone); Hans Zinsser, Resistance to Infectious Diseases (Macmillan); W. W. C. Topley & G. S. Wilson, The Principles of Bacteriology & Immunity (Edward Arnold & Co.); W. W. C. Topley, An Outline of Immunity (Arnold); M. Langeron, Précis de Microscopie (Masson et Cie); D. H. Bergey, Manual of Determinative Bacteriology (Williams & Wilkins); E. O. Jordan and W. Burrows, Text-book of Bacteriology (W. B. Saunders Co.); Frederick P. Gay, Agents of Disease and Host Resistance (Charles C. Thomas); Practical Bacteriology, Haematology and Animal Parasitology, E. R. Stitt, P. W. Clough and M. C Clough (P. Blakiston Sons & Co.); An Introduction to Bacteriological Chemistry, C. G. Anderson (Macmillan Co. of Canada); A text-book of Medical Bacteriology, D. L. Belding and A. T. Marston (Appleton-Century); The Biology of Bacteria, A. T. Henrici (Heath & Co.); Fundamentals of Bacteriology, Martin Frobisher, Jr. (W. B. Saunders Co.); N. P. Sherwood, Immunology, (C. V. Mosby Co.); H. Zinsser, J. F. Enders and L. D. Fothergill, Immunity Principles and Application in Medicine and Public Health (Macmillan Co.); J. A. Kolmer and L. Tuft, Clinical Immunology Biotherapy and Chemotherapy (W. B. Saunders Co.); R. W. Fairbrother, A text-book of Medical Bacteriology (W. Heinemann, Ltd.); R. J. Dubos, The Bacterial Cell (Harvard University Press); K. Landsteiner, The Specificity of Serological Reactions (Harvard University Press); F. M. Burnett, Virus.

CURRICULUM FOR B.SC. HONOURS IN BACTERIOLOGY AND IMMUNOLOGY

Prerequisite: An aggregate standing of high second class must be obtained in the subjects submitted for the First Year and good standing maintained in subsequent years.

The Chairman of the Department should be consulted in selecting subjects to be studied in the Second and Third Years.

The following course of study has been found suitable for most students but may be modified to suit individual cases.

First Year: First year B.Sc. preferably including Botany 11a, Zoology 11b.

Second Year: Physiology 21; Botany 11b; Zoology 11a; Chemistry 22, and 24; Genetics 21; and one other course.

Third Year: Biochemistry 1 and 1L; Physiology; Botany 22b; Histology 1a or Zoology 25; Bacteriology 4.

Students of Medicine who have done sufficiently well in their Medical Bacteriology and in their Medical studies in general will be admitted to Course 3.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

BIOCHEMISTRY

Professor ..... D. L. THOMSON
Associate Professors ..... R. D. H. HEARD, O. F. DENSTEDT
Assistant Professor ..... K. A. C. ELLIOT
Sessional Lecturer ..... JUDITH COHEN
Demonstrator ..... LUCILLE CARLTON

1. GENERAL PHYSIOLOGICAL CHEMISTRY. (Full Course with Lab.)
Three hours ..... Professor Thomson

A general survey of the chemistry of carbohydrates, fats, steroids and proteins, their transformations in the body, and the composition of the body in health and disease.

Texts: Bodansky, Introduction to Physiological Chemistry (Wiley); Cameron, Text-book of Biochemistry (Macmillan); Williams, Text-book of Biochemistry (van Nostrand); Mitchell, Text-book of Biochemistry (McGraw-Hill).

1L. LABORATORY: Two periods selected from Mon., Tues., Wed., Thurs., 2-5., October to February inclusive. A synopsis of the course is issued by the Department.

NOTE: Prerequisites are Chemistry 22, Physiology 2.

2. ENDOCRINOLOGY (Half Course)
One hour ..... Professor Heard
The chemistry and pharmacology of the hormones.

Texts: Cameron, Recent Advances in Endocrinology (Blakiston); Grollman, Essentials of Endocrinology (Lippincott).

NOTE: The Medical course in Biochemistry consists of courses 1 and 2 and of three lectures weekly in May on Pathological Chemistry and Nutrition. Dental students may omit course 2.

3. Advanced Biochemistry (Full Course)
Three hours . . . . . Professor Denstedt.

A detailed study of the organic chemistry of carbohydrates, fats, steroids, amino-acids and proteins.

Texts: Harrow & Sherwin, Text-book of Biochemistry (Saunders); Hawk & Bergeim, Practical Physiological Chemistry (Blakiston).

3L. Laboratory. (One and a half Courses)

Four periods.

For Honours students in the Department only.

Prequisite: 1, Chemistry 23.

4a. Nutrition. (Half Course)
First term: Three hours . . . . . Professor Thomson.

Human requirements for calories, protein and other nutrients; the chemical nature, detection, occurrence and physiological function of the vitamins; the essential minerals.

Prerequisite: 1.

Text: Sherman, Chemistry of Food and Nutrition (Macmillan).

4b. Protein Physical Chemistry. (Half Course)
Second term: Three hours . . . . . Professor Thomson.

The physico-chemical properties of solutions of amino-acids and proteins, including conjugated proteins and enzymes; ionic reactions, molecular size and shape, solubility, optical properties, enzyme kinetics.

Prerequisite: 1, Chemistry 24; Biochemistry 3 should be taken concurrently.

Texts: Schmidt, Chemistry of the Amino Acids and Proteins (Thomas); Cohn and Edsall, Proteins, Amino Acids and Peptides (Reinhold).

5. Oxidation and Metabolism. (Full Course)
Two hours . . . . . Professor Thomson.

The nature of biological oxidations and reductions and the enzymes concerned therewith, especially from the point of view of transfer of energy; the reactions of intermediary metabolism of organic foodstuffs as studied by isotope and other methods.

Prerequisite: 1.

Honours Course in Biochemistry

First Year

First Year B.Sc., Zoology 11 recommended.

Second Year

Physiology 21.
Chemistry 22, 23 and 24.

Third Year

Biochemistry 1.
Chemistry 32 or Zoology 31b.
Bacteriology 4.
Mathematics 24 or 23a.

Fourth Year

Biochemistry 3, 3L, 4a, 4b, 5.
One other course, selected from Chemistry 32, Genetics 44, Physiology 32a or 32b, etc.

Candidates for the Honours B.Sc. Degree in Biochemistry are expected to attain at least second class standing in all subjects, and 75 per cent in Biochemistry 1.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

BOTANY

Visiting Professor ..... Nicholas Polunin
Associate Professors ..... Muriel V. Roscoe, R. D. Gibbs, S. M. Pady
Assistant Professor ..... Frank P. Boyle
Lecturer ..... A. A. Wellwood

11a. General Botany: The seed plants. (Half course)
First term ..... Professor Roscoe & Mr. Wellwood (McGill)
Professor Pady (Dawson)

The structure, functioning and reproduction of higher plants, with an introduction to the major families of flowering plants and their economic significance.

11b. General Botany: A survey of the plant kingdom (Half Course)
Second term ..... Professor Gibbs (McGill)
Professor Pady (Dawson)

A study of representatives of the main plant groups on an evolutionary basis.

21. Taxonomy of the Higher Plants (Full Course)
Professor Polunin

A practical introduction to the morphology and classification of the seed plants, giving special attention to the identification and economic importance of Canadian species.

Prerequisite: Botany 11a

22b. Plant Anatomy (Half Course)
Second term ..... Professor Roscoe

A detailed study of the organization of vascular plants: internal structure viewed in relation to function and evolution.

Prerequisite: Botany 11a.

23a. MYCOLOGY (Half Course)
First term—McGill.....Professor Pady
Second term—Dawson

The morphology and classification of the fungi with particular reference to their life cycles and economic importance.

Prerequisite: Botany 11b.

31. PLANT PHYSIOLOGY (Full Course)

General introduction to the study of the physiological functioning and reactions of plants.

Prerequisite: Botany 11a.....Professor Boyle

32. MORPHOLOGY AND TAXONOMY OF THE LOWER PLANTS (Full Course)
Professor Gibbs

Life histories, structure and relationships of the Algae, Fungi, mosses and liverworts, ferms and other non-flowering plants.

Prerequisite: Botany 11b.

33. PLANT BIOCHEMISTRY (Full Course)
Professor Gibbs

Chemistry, occurence, and roles of organic materials found in plants, and methods for their detection and estimation. Some reference to economic uses of plants.

Prerequisite: Botany 11a or 11b, Chemistry 2.

*41. MICROTECHNIQUE (Full Course)
Professor Roscoe & Mr. Wellwood

Methods of preparing plant meterial for microscopical study, with practical experience in fixing, embedding (both paraffin and celloidin), cutting and staining.

Open to honours students and to non-honours students by permission.

Prerequisite: Botany 22b.

*42. SPECIAL TOPICS (Full course or half course)
The Staff

Prescribed reading, conference and practical work in selected subjects such as Ecology, Phytogeography, Mycology, Physiology, Taxonomy of Special Groups, Anatomy and Biochemistry.

HONOURS COURSE IN BOTANY

First and Second Years: The general B.Sc. curriculum suffices, provided Botany 11 is included. The general second year requirements

*Courses for Graduates and Honours Students.

for Honours in Biological subjects (p. 736) is a guide in the choice of courses for the second year but greater latitude is allowed as follows: Chemistry 24 may be postponed from second to third year, an Arts subject (Group III) is optional, and, if Botany 11 has been taken in the first year, Botany 21 and 23a may be included in the second. Zoology 11 is recommended.

Third Year: Botany 21, 22b and 31 if not already taken

Fourth Year: Three of the remaining Botany Courses. Other courses in second and fourth Year with approval of the Department.

The Honours Course in Botany prepares students for graduate work in the departments of Genetics and Plant Pathology as well as Botany. Allowing as it does for considerable study of other biological subjects, it forms also a suitable preparation for the teaching of Biology in schools.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

CHEMISTRY

Professors	O. Maass W. H. Hatcher C. B. Purves C. A. Winkler
Associate Professors	J. H. Mennie W. H. Barnes R. V. V. Nicholls
Assistant Professors	
Lecturers	G. H. Bjorklund G. H. Guest R. K. Holcomb J. M. Holmes A. S. Ross
Honorary Lecturers	W. B. Campbell A. Eastwood W. R. Grassie S. Mason M. Morton J. H. Ross

11. (1) General Chemistry. (Full Course)
Two hours, one tutorial and three hours laboratory.
Professor Hatcher, Dr. Holcomb.

Prerequisite: Physics 11 (or its equivalent) unless taken concurrently.

General survey of chemical theory and of inorganic chemistry including atomic and kinetic theories, equivalent, atomic and molecular weights, gases, liquids, solids, solutions, ionization, oxidation and

reduction, velocities of reactions, chemical equilibrium, heats of reaction, electromotive series, periodic table, preparation and properties of important elements and compounds.

Text: Brinkley, Introduction to College Chemistry (Macmillan).

Laboratory. . . . . .Professor Hatcher and Demonstrators.

Preparation and properties of certain non-metals and compounds; experiments illustrative of important theories; quantitative experiments (including volumetric analysis); introduction to qualitative analysis.

Text: Barnes, General Chemistry Laboratory Manual, second edition, revised (Renouf, 1944).

22. (2) Organic Chemistry. (Elementary) (No. 56 Fac. Eng.)
(Full Course)

Two hours, one tutorial and three hours laboratory.
Professor Hatcher, Dr. Bjorklund and Demonstrators.

Prerequisites: Chemistry 11 and Physics 11 or equivalents.

Special characteristics of carbon and its coumpounds; the principles of functionality, homology and isomerism; nomenclature, occurence, preparation, physical and chemical properties, and uses of the more important organic compounds.

Texts: Wertheim, Introductory Organic Chemistry (Blakiston); Nicholls, an Introduction to Practical Organic Chemistry (Pitman).

23a. (3A) Analytical Chemistry. (Elementary) (No. 53 Fac. Eng.)
Qualitative Analysis (Half Course)

Half session: One hour and six hours laboratory.
Professor Mennie, Dr. Holcomb and Demonstrators.

Prerequisites: Chemistry 11.

Reactions of electrolytes in solution; ionization constant; solubility product constant; common-ion effect; formation and dissolution of precipitates; complex ions; amphoteric electrolytes; hydrolysis, etc. Laboratory: systematic separation and identification of the common ions.

Text: Curtman, Qualitative Chemical Analysis (Macmillan).

23b. (3B.) Analytical Chemistry (Elementary) (No. 54, Fac. Eng.)
Quantitative Analysis (Full Course)

Half session: Two hours and nine hours laboratory.
Professor Mennie, Dr. Holcomb and Demonstrators.

Prerequisite: Chemistry 11.

Theory of gravimetric and volumetric precipitation; theory of indicators and acid-base titrations; oxidation-reduction methods. Laboratory: simple gravimetric determinations; typical volumetric procedures, neutralization, precipitation and oxidation-reduction methods. All samples are solids which must be weighed and brought into solution by the student.

Text: Mennie, Laboratory Instructions in Quantitative Analysis.

24. (4) PHYSICAL CHEMISTRY. (ELEMENTARY). (Full Course)

Two hours, one tutorial . . . . . Professor Maass, Dr. Holmes.

Prerequisites: Chemistry 11, Physics 11.

Fundamental physico-chemical topics including states of matter, equilibria, electrochemical phenomena, chemical kinetics, thermodynamics.

Text: Maass and Steacie, Introduction to the Principles of Physical Chemistry, second edition (Wiley).

24P. (4P) PHYSICAL CHEMISTRY PROBLEMS. (Half Course)

One hour . . . . . Dr. Holmes, Dr. A. S. Ross and Demonstrators.

(FOR HONOURS CHEMISTRY STUDENTS ONLY)

Problems to illustrate physico-chemical principles and provide practice in handling experimental data and dimensional units.

31a. (6a) ATOMIC STRUCTURE AND VALENCE THEORIES (Half Course)

First term: three hours . . . . . Professor Mennie.

Prerequisite: Chemistry 11.

31b. (6b) INORGANIC CHEMISTRY. (Half Course)

Second term: Three hours . . . . . Professor Mennie.

Prerequisite: Chemistry 31a.

Descriptive inorganic chemistry based on the Periodic Table.

Text: Latimer & Hildebrand, Reference Book of Inorganic Chemistry (Macmillan).

32. (5) ORGANIC CHEMISTRY. (ADVANCED) (No. 65 Fac. Eng.) (Full Course)

Two hours . . . . . Professor Nicholls.

Laboratory: (32L) (Half Course)

Six hours. . . . . Professor Nicholls and Demonstrators.

Prerequisite: Chemistry 22.

Electronic character, methods of synthesis, physical, chemical and physiological properties of principal bonds and functional groups in organic compounds; reaction mechanisms, interaction of functional groups, industrial applications of organic compounds.

Laboratory Text: Fieser, Experiments in Organic Chemistry (Heath).

33a. (8a) QUANTITATIVE ANALYSIS. (Full Course)

First term: One hour, twelve hours laboratory.
Professor Mennie and Demonstrators.

Prerequisites: Chemistry 23a, 23b, 24.

Oxidation-reduction reactions; electrolytic analysis; buffer action and applications in systematic analysis. Laboratory: volumetric and gravimetric procedures and systematic analysis of limestone and brass.

Text: Kolthoff and Sandell, Quantitative Inorganic Analysis (Macmillan).

34. (7) KINETIC THEORY (No. 66 Fac. Eng.) (Half Course)

One hour . . . . . Professor Winkler.

Prerequisites: Chemistry 24, Mathematics 24 or 25.

Kinetic theory of gases; fundamental mathematical relations for velocity, collision frequency, viscosity, thermal conductivity, diffusion, etc.; imperfect gases.

Text: Loeb, Kinetic Theory of Gases (McGraw-Hill).

35. (17) THERMODYNAMICS. (Full Course)

Two hours . . . . . Professor Winkler.

First and second laws, entropy, free energy, fugacity and activity, partial molal quantities, Debye-Huckel theory.

Texts: Steiner, Introduction to Chemical Thermodynamics (McGraw-Hill); Lewis and Randall, Thermodynamics (McGraw-Hill); Wenner, Thermochemical Calculations (McGraw-Hill).

40. (24) CHEMISTRY AND TECHNOLOGY OF HIGH POLYMERS. (Half Course)

One hour . . . . . Professor Nicholls.

Prerequisite: Chemistry 22, 32 (the latter course may be taken concurrently).

Organic (carbon) and inorganic (silicon) polymers; nature of polymeric molecules; relationship between molecular structure and physical, chemical and mechanical properties; experimental methods for controlling and determining structures of polymers; properties of commercially available materials; methods of fabrication.

42. (18) STEREOCHEMISTRY. (Full Course)

Two hours . . . . . Professor Nicholls.

Prerequisite: Chemistry 32.

Optical and geometrical isomerism with examples from carbohydrate, fat and protein chemistry; spatial factors affecting reactivity of organic compounds.

42L. (20a) ORGANIC CHEMISTRY LABORATORY. (Half Course)

First term: Nine hours laboratory.

Professor Nicholls and Demonstrators.

(FOR HONOURS CHEMISTRY STUDENTS ONLY)

Practical organic chemistry, including synthetic, purification and analytical procedures.

43b. (21) ANALYTICAL CHEMISTRY. (Half Course)

Second term: One hour and six hours laboratory.

Professor Mennie and Demonstrators.

(FOR HONOURS CHEMISTRY STUDENTS ONLY)

Special methods of quantitative analysis: colorimetric analysis; colorimetric and potentiometric pH measurement; potentiometric and conductometric titrations; polarography; methods involving organic reagents and complex formation; etc.

Texts: Kolthoff and Sandell, Quantitative Inorganic Analysis (Macmillan); Kolthoff and Laitinen, pH and Electro-titrations (Wiley).

44a. (12) Physical Chemistry (Advanced). (No. 67 Fac. Eng.) (Half Course)

First term: One hour.....
Second term: Two hours..... } Professor Winkler and Dr. A. S. Ross

Prerequisites: Chemistry 34, 35.

Chemical kinetics; rates of homogeneous and heterogeneous reactions; activation energy theories of reaction mechanisms; Phase Rule.

Texts: Taylor, Treatise on Physical Chemistry (Van Nostrand); Hinshelwood, Kinetics of Chemical Change (Oxford); Glasstone, Textbook of Physical Chemistry (Van Nostrand).

44L. (12L) Physical and Colloid Chemistry Laboratory. (Full Course)

Nine hours laboratory.....Dr. A. S. Ross and Demonstrators.

Prerequisites: Chemistry 34, 35.

Physico-chemical methods of investigating kinetic and thermodynamic properties of gases, liquids, solutions and colloids.

Text: Daniels, Matthews and Williams, Experimental Physical Chemistry, third edition (McGraw-Hill).

45. (22) Thermodynamics. (Advanced) (Full Course)

Two hours.....Professor Winkler.

(For Honours Chemistry students only)

Texts: Steiner: Introduction to Chemical Thermodynamics (McGraw-Hill); Lewis and Randall, Thermodynamics (McGraw-Hill); Wenner, Thermochemical Calculations (McGraw-Hill).

46. (15) Colloid Chemistry. (No. 75 Fac. Eng.) (Half Course)

One hour.....Dr. A. S. Ross.

Prerequisites: Chemistry 34, 35.

Descriptive thermodynamic and kinetic treatment of properties of surfaces, sols, emulsions, gels.

Texts: Hartman, Colloid Chemistry (Houghton-Mifflin); Weiser' Colloid Chemistry (Wiley); Adam, Physics and Chemistry of Surfaces (Oxford); Brunauer, Adsorption of Gases and Vapors, Vol. I (Princeton).

47a. (11a) Electrochemistry. (No. 70 Fac. Eng.) (Half Course)
First term: Two hours.....Dr. A. S. Ross.

Prerequisites: Chemistry 34, 35.

Electrolytic conduction and electrolysis; Faraday's laws; specific and equivalent conductance and measurement of conductance; mobility and transport number; theory of strong electrolytes; thermodynamics of cells; electrode potentials; concentration cells; liquid junction potentials; overvoltage and polarization phenomena, etc.

Texts: Glasstone, Introduction to Electrochemistry (Van Nostrand); Creighton, Electrochemistry (Wiley).

60. (16) The Chemistry of Daily Life. (Full Course)
Two hours.....Professor Hatcher.

For students in Arts, the School for Graduate Nurses and others who wish to gain an insight into the importance of chemistry. No previous knowledge of the subject is required. Demonstrations take the place of formal laboratory operations. Major branches of chemistry discussed are Inorganic, Organic and Foods.

Text: Hatcher, An Introduction to Chemical Science (Wiley).

70. (23) Science in Economic Life III. (Full Course)
Two hours.....Professor Hatcher.

Detailed discussion of important chemical industries, their bearing upon the utilization of natural resources and their importance both nationally and internationally. For B. Com. students.

Text: Selected readings and essays.

72a. (25a) Organic Chemistry (Elementary). (Half Course)
First term: Three hours and three hours laboratory.
Professor Nicholls and Demonstrators.

Prerequisites: Chemistry 11 and Physics 11, or equivalents.

A course in elementary organic chemistry especially designed for degree students in Nursing and Physical Education.

B.Sc. Honours Course in Chemistry

This course begins in the Second Year. First Year students intending to take Honours in Chemistry should consult the Department before the end of the session.

Prerequisites: At least good second class standing in Chemistry 11, Mathematics 11a, 12b and Physics 11 or their equivalents. It is desirable that students should have taken a course in German in the first year.

Second Year: Chemistry 22, 23a, 23b, 24, 24P; Mathematics 24 or 25; Physics 22.

Third Year: Chemistry 31a, 31b, 32, 32L, 33a, 34, 35; Mathematics 37; Physics 23.

Fourth Year: Chemistry 42, 42L, 43b, 44, 44L, 45, 46, 47; Mathematics 47.

NOTE: Students anticipating specialization in Chemistry are recommended to include Intermediate Mathematics in their Junior Matriculation subjects. If they enter by Senior Matriculation they should include Co-ordinate Geometry in this examination.

GENERAL COURSE STUDENTS (B.Sc.)

Chemistry courses may be taken in the following years providing necessary prerequisites have been passed; *second or third year*, Chemistry 22, 24; *third or fourth year*, Chemistry 23, 31, 32, 34, 35, 40; *fourth year only*, Chemistry 33, 42, 44, 44L, 46.

GENERAL COURSE STUDENTS (B.A.)

B.A. students normally are admitted to Chemistry 11 only in their second year after taking Physics 11 in their first year and if they plan to take a Chemistry course in a later year. Otherwise they should take Chemistry 60. In 1948 the Department may offer a five-year Honours Course (dating from Junior Matriculation) and the Session 1948-9 may be the second year of such a course. A course in German may be compulsory in the first year of that course.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

CLASSICS

Professors . . . . . W. D. WOODHEAD, CLIVE H. CARRUTHERS

Associate Professors . . . . . PAUL F. MCCULLAGH, E. M. COUNSELL

GREEK

All students taking Honours in Greek are expected to provide themselves with a grammar, a Greek-English dictionary, a classical dictionary, and an atlas of ancient geography. The following are recommended: Goodwin Greek Grammar (Ginn & Co.); Liddell and Scott, Greek Lexicon (abridged or intermediate); Kiepert, Atlas Antiquus (Williams and Norgate); Smith, Smaller Classical Dictionary (Everyman Series, Dent).

1S. BEGINNERS' GREEK. First Year. See requirements on page 728.
(Full Course)
Three hours . . . . . Professor Carruthers.
Texts: Chase and Phillips, New Introduction to Greek.

1. GREEK. First and Second Years. (Full Course)

Three hours . . . . . Professor Woodhead.

Text: Colson Greek Reader; Lectures on Greek Literature.

Greek 11, 12 and 13 may be taken by qualified students in the General Course. For further information consult the Chairman of the Department.

HONOURS COURSES IN GREEK

21. GREEK. Second Year. (Full Course)

Three hours.

Texts: Plato, Laches (Tatham, Macmillan); Euripides, Medea.

22. GREEK. Second Year. (Full Course)

Three hours.

Texts: Homer, Iliad 24 (Leaf and Bayfield, Macmillan); Lucian, Menippus and Timon; Essays.

31. GREEK. Third Year. (Full Course)

Three hours.

Texts: Sophocles, Oedipus Rex; Thucydides, Book VII.

32. GREEK. Third Year. (Full Course)

Three hours.

Texts: Herodotus, Selections (Barbour, Heath & Co.); Aristophanes' Clouds (Merry, Clarendon Press); Plato, Selections (Forman, Macmillan); Sight Translation.

41. GREEK. Fourth Year. (Full Course)

Three hours.

Texts: Aeschylus, Agamemnon, Aristophanes, Birds (Merry, Oxford); Bucolici Græci (Oxford Classical Text).

42. GREEK. Fourth Year. (Full Course)

Three hours.

Texts: Aristotle, Ethics (Selections); Plato, Republic (Selections); Sight Translation.

Latin

All students taking Honours in Latin are expected to provide themselves with a grammar, a Latin-English dictionary, a classical dictionary, and an atlas of ancient geography. The following are recommended: New Latin Grammar (Allen and Greenough, Ginn & Co.); Lewis, School Dictionary, or White, Junior Students' Latin-English Dictionary; Smith, Smaller Classical Dictionary (Everyman's Series, Dent), Kiepert, Atlas Antiquus (Williams and Norgate).

1S. Beginners' Latin. First Year. (Full Course).
Three hours. See requirements on page 728.

(To satisfy First Year requirements for students who have been admitted to the McGill B.A. course on some other basis than McGill School Certificate Examination.)

1. Latin. First Year. (Full Course)
Three hours.

Texts: Petrie, Latin Reader; Latin Prose Composition (Bonney and Niddrie); Translations at sight.

1A. Latin. First Year (for more advanced students). (Full Course)
Three hours.

Texts: To be arranged; Latin Prose Composition (Tracy and Law, Clarke Irwin); Translation at sight.

2. Latin. Second Year. (Full Course)
Three hours.

Texts: To be arranged.

Third Year Students in the General Course will take Latin 31; Fourth Year Students will take Latin 32.

Honours Courses in Latin

The following courses may all be taken as two half courses, beginning in either term.

21. Latin. Second Year. (Full Course)
Three hours.

Texts: Catullus (Simpson, Macmillan); Sallust, Catiline.

22. Latin. Second Year. (Full Course)
Three hours.

Texts: Livy xxii (Pyper, Clarendon Press); Virgil, Aeneid iv or vi; Horace, Selected Odes (Horace, Oxford Classical Texts), Sight Translation.

31. LATIN. Third Year. (Full Course)
Three hours.
Texts: Selections from Pliny's Letters (Westcott, Allyn and Bacon); Roman Elegiac Poets (Harrington, American Book Co.); Sight Translation.

32. LATIN. Third Year. (Full Course)
Three hours.
Texts: Virgil, Bucolics (Sidwick), Georgics IV (Sidwick); Juvenal, Selections (Duff, Cambridge University Press); Prose Composition.

41. LATIN. Fourth Year. (Full Course)
Three hours.
Texts: Seneca, Selected Letters (Summers, Macmillan); Tacitus, Annals i and iv (Furneaux, Smaller Edition, Clarendon Press); Sight Translation.

42. LATIN. Fourth Year. (Full Course)
Three hours.
Texts: Lucretius (Selections: Sinker, Macmillan); Horace, Satires and Epistles (Rolfe, Allyn and Bacon).

1S. ANCIENT HISTORY. (Full Course)
The Civilization of Greece and Rome: Open to students of all years. May be taken as a half-course in the first or second term except by First Year students or students in Honours Classics.
Three hours.
The full course is described as History 1S. See also under Department of History.

COMPARATIVE GRAMMAR. (Half Course)
FOR THIRD YEAR HONOURS STUDENTS
Tu., 2:30-4:00 . . . . . Professor Carruthers.

20. GREEK AND ROMAN LITERATURE IN TRANSLATION (Full Course)
A course for Second, Third, and Fourth Year Students, especially students interested in Literature. Readings of the greater works of Greek and Roman Literature in translation, with interpretative lectures and discussions.
Three hours . . . . . Professor Woodhead

21. LINGUISTICS. Introduction to the Study of Language. (Full Course)
Available to Second and Third Year Students.
Three hours . . . . . Professor Carruthers.
An elementary survey of human speech, its nature, origin, structure and classification; principles of linguistic change; writing and the alphabet; universal and auxiliary languages.

GRADUATE COURSES IN CLASSICS

See the Announcement of the Faculty of Graduate Studies and Research.

ECONOMICS AND POLITICAL SCIENCE

Professors: E. F. Beach, B. H. Higgins, F. C. James, B. S. Keirstead, D. B. Marsh, F. Watkins

Associate Professors: J. T. Culliton, J. B. Rollit, H. D. Woods

Assistant Professors: J. R. Mallory, P. F. Vineberg

Special Lecturer: H. C. Goldenberg

ECONOMICS COURSES

100. (3) Economic History. First Year. (Full Course)

Three hours.....Professor James.

Evolution of economic institutions; the Ancient Empires; economic and social aspects of the Decline and Fall of the Roman Empire; mediaeval agrarian economy; fairs, towns and trading companies; mediaeval money; the Voyages of Discovery; religion and the rise of capitalism; Nationalism and Mercantilism; the Colonial System; the beginnings of modern banking; the great inventions and the factory system; North American industrial development; trade unions and the co-operative movement; legislative protection of the worker; international finance; rise and fall of the gold standard; evolution of the central banking function; recent economic changes.

211H. (1H) Introduction to Economic Theory. Second Year. (Full Course)

Three hours.....Professor Keirstead.

This course is prerequisite to all honours courses in Economics. An introduction to economic analysis covering general price theory, the theory of the firm, theory of production and distribution and general equilibrium theory.

211G. (1G) Elements of Political Economy. Second Year. (Full Course)

Three hours.....Professor Culliton.

This course is prerequisite to all courses in Economics except 100.

Production, distribution and exchange of goods; money and banking; price; international trade and foreign exchange; labour and trade unions; related topics.

211c. (1C) PRINCIPLES OF ECONOMICS. Second Year. (Full Course)

Three hours . . . . . Professor Beach.

This course is prerequisite to all courses in economics except Economics 100.

An introduction to the general principles of economics, dealing mostly with production and exchange; but some consideration is given to distribution. Specific types treated are: the factors of production, specialization, competition, risk, the monetary system, banking, price levels, supply and demand analysis, international trade, wages, interest, rent and profits.

311. (10) HISTORY OF ECONOMIC THOUGHT. Third or Fourth Year. (Full Course)

Three hours . . . . . Professor Marsh.

A critical study of the writings of the great economists, with particular reference to the period from Adam Smith to the present day.

321. (5) MONEY AND BANKING. Third Year. (Full Course)

Three hours . . . . . Professor Higgins.

Theory and practice of money and credit; organization and operations of financial institutions; monetary policy; concept and function of money; early history of credit institutions; the crisis of 1825, the Peel Bank Act, and the development of the British financial system; the National Banking System in U.S. and the evolution of the Federal Reserve System; early development of Canadian banking; effects of World Wars I and II and of the Great Depression on U.S., U.K., and Canadian banking; monetary policy and economic fluctuations.

331. (14) GOVERNMENT REGULATION OF INDUSTRY. Third or Fourth Year. (Full Course)

Three hours . . . . . Professor Higgins.

A study of the economic policy of governments, with particular regard to corporations and forms of business enterprise, regulation of markets and competition, monopoly problems, public utilities, and governmental enterprises.

341a. LABOUR PROBLEMS. Third Year. (Half Course)

First term: Three hours . . . . . Professor Rollit.

The origin of labour problems in modern industrial organization; their interpretation of economic theory; critical review of the various problems and remedial measures.

341b. (11b) Labour Institutions. Third Year. (Half Course)

Second term: Three hours . . . . . Professor Woods.

The course is designed to supplement the course in labour problems but may be taken separately. It deals with trade unions, co-operative societies, credit unions, labour political movements, labour legislation, and governmental organisation in the labour field. Students are advised to take Economics 341a.

351. (6) Canada: Geographic, Industrial and Economic Problems. Third Year. (Full Course)

Three hours . . . . . Professor Culliton.

This course consists of discussions on current economic and political problems in Canada with special emphasis on their origins, causes and possible solutions; e.g., the wheat problem, the coal problem, etc.

361. (8) Economic Statistics. Third Year. (Full Course)

(May be taken as half course (361a) in first term.)

Three hours . . . . . Professor Beach.

Economics 211, Mathematics 11a, 12b are prerequisites to this course; Mathematics 23a is very helpful.

It is a study of the gathering, analysis, and presentation of statistical data. Specific types include: sources, tabulation, charting averages, dispersion, frequency distribution, reliability, correlation, index numbers, trends, seasonals and cyclical fluctuations.

411. (21) Advanced Economic Theory. Fourth Year. (Full Course)

Three hours . . . . . Professor Keirstead.

Prerequisite: Economics 211H, Economics 311.

An attempt to formulate the theoretic problems oe the frontiers of the science and to study attacks on these problems in the recent litarature.

412. (12) Economic Analysis. Third or Fourth Year. (Full Course)

Three hours . . . . . Professor ———

A systematic study of the techniques and principal results of theoretical analysis, including the theory of prices, wages, interest rates; the theory of accounts; the marginal analysis of individual firm, industry, and household; the theory of capital.

421a. (16a) PUBLIC FINANCE. Third or Fourth Year. (Half Course)

Three hours . . . . . .Professor Higgins.

Objectives of tax policy; fiscal control of monopoly; effects on allocation of resources and distribution of income of personal income taxes, corporate income taxes, property taxes, commodity taxes, etc. Intergovernmental financial relations; Canadian, American and British tax practice.

422a. (17a) ECONOMIC FLUCTUATIONS. Third or Fourth Year. (Half Course)

First term: Three hours . . . . . .Professor Higgins.

Analysis of the nature and causes of fluctuations in income, employment, prices, production, etc. The 3 types of cycle: Kitchin, Juglar, and Kondratieff; secular stagnation, the concept of national income; major components; fundamental savings-investment and monetary flow equations; the multiplier; the relation; interactions of multiplier and relation; the Schumpeter Model; the Kalecki-Kaldor model; the Hayek model; the Keynesian system; Hansen and the doctrine of economic maturity.

422b. (18b) FISCAL POLICY. Third or Fourth Year. (Half Course)

Second term: Three hours . . . . . .Professor Higgins.

Prerequisite for this course is Economics 422a (Economic fluctuations) or Economics 421a (Public Finance).

This course is concerned with actual and proposed economic policies for the maintenance of full employment without inflation. Nature of the employment problem; policy implications of various explanations of economic fluctuations; policy implications of "long wave" and "stagnation" theories; policies to stimulate private investment; policies to increase consumer spending; public investment policy; monetary vs. fiscal policy; tax reduction vs. increased expenditures; foreign trade policy and employment; debt management.

424b. (20b) INTERNATIONAL TRADE AND TRADE POLICY. Fourth Year. (Half Course)

Second term: Three hours . . . . . .Professor Marsh.

Prerequisite: Economics 211, Economics 321.

A study of the economic problems which result from the existence of sovereign states: foreign exchanges, tariffs, commercial policy, state trading, international economic agreements.

425b. (16a) Corporation Finance. Fourth Year. (Half Course)

Second term: Three hours . . . . . Professor Vineberg.

Prerequisite: Economics 211.

Nature and characteristics of the Corporation. The government and corporations, Intercorporate relations— the holding company. The Capital Market—finance and corporate finance—the investment trust. The Stock Exchange. Capitalization—par value and no par value stock—preferred shares—apportionment of earnings. Capital and voting power amongst different classes of investors—Redemption. Corporate Borrowing —Trust Deed and Bond issues—sinking fund—Equipment Obligations. Corporate Reorganizations. The Sale of Securities—Investment Banking —Regulation of Securities Sales in England, U.S. and Canada—The Securities and Exchange Commissions.

431. (22) International Commodity Controls. Fourth Year. (Full Course)

Three hours . . . . . Professor Culliton.

This course includes, as well as international commodity controls, the wider question of monopolies, cartels, patents and monopoly legislation. It is conducted along seminar lines.

432b. (13b) Transportation. Fourth Year. (Half Course)

Second term: Three hours . . . . . Professor Rollit.

History and development of the Canadian transportation system; economic characteristics of the various transportation media; comparative analysis of cost and rate structures; problems of regulation and control.

441. (23) Industrial Relations. Third and Fourth Year. (Full Course)

Three hours . . . . . Professor Woods.

An introduction to the problems of employer-employee relations including the management of personnel, legislation, employee organizations and the State function and public interest in industrial relations. Plant visits and reports are an integral part of the course.

442. (24) Collective Bargaining. Fourth Year. (Full Course)

Three hours . . . . . Professor Woods.

A seminar course involving an intensive study of collective bargaining institutions and techniques, grievance procedures, law and the state machinery for industrial relations. The course covers trade unionism, employers associations, collective agreements, negotiations, the content of such agreements, conciliation and arbitration. Experience in other industrial countries is also examined.

461a. Econometrics I. (Half Course)

First term: Three hours . . . . . Professor Beach.

Prerequisite: Same as Economics 461b.

This course will be somewhat more elementary than Economics 461b.

461b. (27b) Econometrics II (Half Course)

Second term: Three hours . . . . . Professor Beach.

Prerequisite: A course in (1) economic theory beyond the elementary level, a course in (2) elementary calculus, and a course in (3) statistics.

A treatment of economic theory in terms of mathematics and a testing of this theory with statistical evidence. A discussion of revenue and cost curves, and attempts to measure them statistically; a study of the theory of indifference curves and their application to family budget statistics; a study of various models of economic systems.

POLITICAL SCIENCE COURSES

211a. (4a) Comparative Government: Constitutionalism.

Second or Third Year. (Half Course)

Three hours . . . . . Professor Watkins.

This course is normally expected as a prerequisite for further courses in the field.

The analyses of certain basic concepts of Political Science, with illustrations drawn mainly from the experience of constitutional government as practiced in the United States and on the continent of Europe.

211b. (4b) Comparative Government: Dictatorship.

Second or Third Year. (Half Course)

Three hours . . . . . Professor Watkins.

This course is prerequisite to all further courses in Political Science.

The analysis of certain basic concepts of political science, with illustrations drawn mainly from the experience of dictatorial government as practiced in National Socialist Germany and in the U.S.S.R.

311. (9) History of Political Theory. Third Year. (Full Course)

Three hours . . . . . Professor Watkins.

A survey of the development of Western political thought from ancient Greece down to the present.

321b. (25b) Political Thought and Institutions of China and Japan.
Third or Fourth Year. (Half Course)
Second term: Three hours . . . . . Professor Watkins.
Restricted to Third and Fourth Year students. No prerequisite.
A study of the traditional political systems of China and Japan, and of the problems resulting from various attempts to adapt those systems to the requirements of Western civilization.
(Not given in 1947-48.)

322a. (Part of 26) Government of Great Britain.
Third or Fourth Years. (Half Course)
First term: Three hours . . . . . Professor Mallory.
Prerequisite: Political Science 211.
A study of the institutions and working of parliamentary government in Great Britain.

323b. (Part of 26) Government of the British Dominions.
Third or Fourth Years. (Half Course)
Second term: Three hours . . . . . Professor Mallory.
Prerequisite: Political Science 211.
Institutions and working of parliamentary governments in the British Dominions.

324b. Government of British Colonial Empire. Third or Fourth Years. (Half Course)
Second term: Three hours . . . . . Professor Mallory.
Prerequisite: Political Science 211.
A study of the nature of imperial control, degrees of local self-government, Colonial economic development, and development of political institutions.
(Not given in 1947-48.)

331b. Theory and Practice of Nationalism. Third or Fourth Year. (Half Course)
Second term: Three hours . . . . . Professor Watkins.
Prerequisite: History 1 or Political Science 311, preferably both.
A study of the conditions which led to the development of modern nationalism, and of the political techniques most commonly employed for the creation and maintenance of national sentiments.
(Not given 1947-48.)

341. The Administrative Process. Third and Fourth Years. (Full Course)
Three hours. . . . . Professor Mallory.
A discussion of the organisation of administrative agencies illustrated by reference to Canadian and other typical agencies.

342a. Municipal Government. Third or Fourth Years. (Half Course)
Three Hours. . . . . Mr. Goldenberg.
A study of the government of towns and cities, with especial reference to their financial problems.

351. (7.) Government of Canada. Third or Fourth Year. (Full Course)
Three hours . . . . . Professor Mallory.
Prerequisite: Political Science 211.
The working of parliamentary federations in Canada. The problems of federal-provincial relations; the structure of parliamentary government; the evolution of national status.

Honours Courses

Students taking full honours in Economics and Political Science take, in their Second Year, courses Economics 211H and Politics 211a and 211b, together with three other courses approved by the department. In their Third Year they must take Economics 311 and Politics 311, with one additional approved course in the department and another approved course outside. In their Fourth Year they must take three approved courses in the department and one approved course outside. Courses in the Third and Fourth Years will normally include a regular sequence, for example, 321, 421, 422: 331, 431, 432b: 341, 441, 442.

Students taking the full Honours in Economics and Mathematics are required to take two approved full courses in Economics in their Second and every subsequent year, together with the courses in Mathematics or other subject as specified in the announcement of the Department of Mathematics.

Students taking half Honours in Economics or half Honours in Political Science (see page 731) shall take Economics 211 and Politics 211a and 211b and four full courses or their equivalent, approved by the Department.

Geography 41a (Economic Geography) is acceptable as an honours course in Economics in conjunction with either Economics 424b or Economics 432b.

Students in the Department of Economics and Political Science are expected to spend a considerable porportion of their time in the preparation of class reports, essays, etc., in addition to the lectures and ordinary reading.

Graduate Courses

See the Announcement of the Faculty of Graduate Studies and Research.

EDUCATION

Professors . . . . . John Hughes, Sinclair Laird
Associate Professor . . . . . A. B. Currie
Sessional Lecturer . . . . . A. Robert George

(Note: There may be certain changes in the courses given for session 1947-48.)

DEGREE COURSES

1. General Principles of Education. Third, Fourth or Fifth Years. Three hours.
2. Method and School Organization. Fifth Year. Three hours.
3. Educational Psychology. (Course given under the joint auspices of the Departments of Psychology and Education.)

Prospective High School Teachers.—Choice of subjects.

Students entering the University as Matriculants with the intention of becoming High School Teachers should consult the Professor of Education (Room 19, Arts Building) before deciding on their courses. They are strongly recommended to include in their Degree studies a course in at least one of the following:

1. Psychology.
2. Sociology.
3. Philosophy (*either* Ethics *or* Logic and Scientific Method).
4. Economics.

All B.Sc. students who are prospective candidates for the High School Diploma are strongly recommended to arrange their undergraduate course so as to include at least one year each in Biology, Chemistry and Physics.

(Re Compulsory Courses of the First and Second Years—see below.)

PROFESSIONAL (METHOD) COURSES

Methods of Teaching Special Subjects (hours to be arranged).

Courses on the Methods of teaching the following special subjects are available for candidates for the High School Diploma: (1) The Humanities (English, French, Classics); (2) Social Sciences (including History, Geography, etc.); (3) Science (Biological and Physical) including Mathematics.

THE TRAINING OF TEACHERS

The Quebec High School Diploma

This diploma is valid only in the Protestant Schools of the Province of Quebec. Only those students who may legally teach in Protestant schools should attempt to qualify for this diploma.

Each candidate must (*a*) make application upon the authorized forms, (*b*) be a British subject or satisfy the Central Board that he has begun the necessary proceedings to become such, (*c*) submit a physician's certificate to show that he is in good health and free from physical defects likely to interfere with his usefulness as a teacher, (*d*) be a graduate of an approved University, with degree courses or their equivalents approved by the Central Board of Examiners, as follows:*

Courses for two years in the following subjects:

Courses of the First Year—English, French and any three of the following: History, Mathematics, Science and Latin.

Courses of the Second Year—English, French and any three of the following: History, Mathematics, Latin, Science, a second Science.

It is provided, however, (*i*) that a candidate may omit in a succeeding year any three of these subjects, except English, in which he has taken at least 60% in a previous year, (*ii*) that a candidate who is beginning an Honours course in the second year is exempt from the foregoing second year requirements.

Alternative Academic Prerequisites for the Quebec High School Diploma*

It will be possible for candidates entering the University in 1947-48 to avail themselves of the following alternative academic prerequisites. The following statement of the alternatives is quoted from the "Educational Record of the Province of Quebec," Vol. LXI, No. 4, October-December, 1945, pages 252-3 (Minutes of the May 1945 Meeting of the Protestant Committee):—

A. B.A. STUDENTS

Courses of the First Year

English (obligatory), and any four of the following: French, Geography, History, Latin, Mathematics, or one Science chosen from Biology (Botany and Zoology), Chemistry, Geology and Physics.

Courses of the Second Year

1. Pass Students.

English (obligatory), and any four of the following: French, Geography, Economics, History, Latin, Mathematics, Psychology, or a Science chosen from Biology, Chemistry, Geology or Physics. It is provided, however, that two of the subjects selected in the second year must be continuations of subjects followed in the first year.

*But, see below proviso re Exemption for Veteran Students.

2. Honours Students.

A candidate who begins an honours course in his second year and subsequently graduates with honours shall take: English (obligatory), two subjects continued from the first year, and any other two subjects appropriate to the second year of his honours course.

B. B.Sc. STUDENTS

Courses of the First Year

English (obligatory), Mathematics, (obligatory), two Sciences chosen from Biology, Chemistry or Physics, and one elective subject chosen from History, a modern foreign language, a Science from the above-mentioned group, or Geology.

Courses of the Second Year

1. Pass Students.

English (obligatory), three courses chosen from Mathematics, Chemistry, Physics or Biology, two of which shall be continuations from the first year, and an elective course. (Although not required by these Regulations, it is recommended that B.Sc. students arrange their undergraduate course so as to include at least one year each in Biology, Chemistry and Physics.)

Courses of the Second Year

2. Honours Students.

A candidate who begins an honours course in his second year and subsequently graduates with honours shall be considered to have completed the requirements if in his second year he completes English (obligatory), two subjects continued from the first year, and any other two subjects appropriate to the second year of his honours course.

Note—In order to prevent disruption of educational programmes and to prevent any sudden contraction in the supply of candidates for high school diplomas, it is provided that these new regulations shall become operative at the beginning of the academic year following the passing of the Order-in-Council, and shall apply only to students who register for undergraduate work at the beginning of the said academic year, or later. During the four years immediately following the passage of the Order-in-Council, candidates may qualify either on the basis of the above regulations or on those formerly in effect."

C. B. Com. STUDENTS

Academic Prerequisites for B. Com. Students who intend to take High School teacher training after graduation are now under consideration and will be announced shortly. Students interested should apply for details of these requirements to the Professor of Education, Room 19, Arts Building, at the earliest opportunity.

VETERANS EXEMPT

Veterans who are graduates of an approved University are eligible for admission to the High School Diploma Course without meeting the requirements concerning First and Second Year courses.

FURTHER ACADEMIC STUDY

The post-graduation year of training provides opportunities for further academic study, and completion of any academic requirements remaining unfulfilled. (See below, "Credit for M.A. Degree".)

COMPULSORY POST-GRADUATE YEAR OF PROFESSIONAL TRAINING

Every student who desires to proceed to the Diploma will be required to take a post-graduate year of training. The course begins early in September and ends in June.

Candidates for this course are advised to consult the Professor of Education for further particulars; and are requested to do this, wherever practicable, before April 15th, to make provisional arrangements.

Candidates must fulfil the following requirements:

(1) The successful completion of Degree courses 1 and 2 in the Department of Education, and the course in Educational Psychology.

(2) Successful completion of any three of the following five courses in methods of teaching special subjects: (1) French, (2) Science (Biological and Physical), (3) Geography, (4) Music, (5) Drawing. These courses are held in the Montreal High School and elsewhere at hours to be announced later.

(3) Successful completion of at least fifty half-days of practice teaching and criticism lessons under expert supervision (unless the candidate holds an intermediate diploma or shows an equivalent in successful teaching experience which would be accepted by the Central Board of Examiners).

The course in Practice Teaching is at present divided into three parts. The first part is taken in the fall of the Fifth Year and is carried on in the primary and/or high schools of Greater Montreal. The second part of the course is taken on Fridays in the schools during the session. The third part of the course is taken in May and June after the examinations and is carried on in the primary and/or high schools. At present candidates are enabled to take advantage of at least seventy-five half-days of Practice Teaching.

Regulations of the Protestant Committee
(1940 Edition)

The Regulations governing the award of the High School Diploma require that candidates must make application upon the authorized form (which may be obtained at the Registrar's Office, McGill University) to Dr. W. P. Percival, Secretary, Protestant Central Board of Examiners, Department of Education, Quebec, P.Q., *on or before the 20th day of July before entering upon the year of training.*

Students will note that high school certificates shall be interim when issued, and shall be exchanged for permanent diplomas after two years of successful teaching as certified by an inspector. Only those teachers shall be eligible to act as Principals of High Schools who possess permanent High School Diplomas and have attended successfully at least one session at an approved summer school after receiving their interim certificates.

Credit for M.A. Degree

The work done in the year of training for the High School Diploma, if of sufficiently high standard, is helpful to candidates desiring to proceed to the M.A. degree in Education. (See the Announcement of the Faculty of Graduate Studies and Research.)

Elementary, Intermediate, and Kindergarten Diplomas

The training for these diplomas is given by Macdonald College. (See Macdonald College Announcement.)

Courses for Teachers of Special Subjects

French. A summer school for teachers of French leading to a Specialist Diploma recognized by the Provincial Department of Education.

Kindergarten Assistants. A two-session course held in Montreal and leading to a Kindergarten Assistant's Diploma, according to the regulations of the Protestant Committee of the Department of Education. This Diploma is accepted for entrance to the Kindergarten class by Macdonald College. (See Macdonald College Announcement.)

Physical Education. This course is given under the Department of Physical Education. (See Announcement of the School of Physical Education.)

M.A. in Education

For details of the M.A. in Education, see the Announcement of the Faculty of Graduate Studies and Research, under "Education."

Scholarships and Bursaries

Scholarships and Bursaries are now available both for M.A. and Diploma students. Further information may be obtained from the Professor of Education.

ENGLISH

Professors ..... HAROLD G. FILES

Associate Professor ..... A. S. NOAD

Lecturers ..... JOHN DANDO, ELMER HALL, JOYCE HEMLOW, GEORGE FALLE, A. M. KLEIN, (visiting lecturer).

2. ENGLISH (LITERATURE AND COMPOSITION). (Full Course)

General Course.

Three hours..... Professor————Mr. Dando, Mr. Falle, and Assistants.
Weekly conferences hours to be arranged.
Hours for additional Sections, if necessary, to be arranged.

Advanced Courses.

Advanced students will be assigned to special sections in which advanced work will be prescribed.

3. ENGLISH COMPOSITION. (Full Course)
An advanced course open to a limited number of undergraduate students who have completed English 2. Application for permission to take this course should be made at the beginning of the session. Registration is limited.
Hours to be arranged ..... Professor Files.

4. ENGLISH LITERATURE IN THE NINETEENTH CENTURY. (Full Course)
Three hours..... Mr. Dando and Assistants.

5. ENGLISH COMPOSITION. General Course. (Half Course)
The registration is limited... Mr. Falle, Mr. Dando and Assistants.
Hours to be arranged.

6. SHAKSPERE (Six Plays). (Full Course)
Three hours..... Professor————and Mr. Dando.

7. ENGLISH LITERATURE IN THE EIGHTEENTH CENTURY. (Full Course)
Three hours ..... Professor Files.
(Not given in 1947-1948)

8. THE LITERATURE AND CULTURE OF THE RENAISSANCE. (Full Course)
Three hours ..... Professor Noad.

9a. English Poetry from 1798 to 1850. (Half Course)
First term.....Professor Noad and Mr. Klein.

9b. English Poetry from 1850 to the present time. (Half Course)
Second term: Three hours.
Professors Noad and————, Mr. Klein.
9a includes Romantic and early Victorian poetry. 9b includes later Victorian and contemporary poetry.

10. The English Novel, from Richardson to the present time, with some reference to foreign work and to related literary types.
Three hours.....Professor Files.

11. English Literature from 1450 to 1611 (exclusive of Shakspere) (Full Course)
Professor Noad, Miss Hemlow and Mr. Klein.
(Not given in 1947-1948)

12. Old English: English Language and Literature up to the Norman Conquest. (Full Course)
Three hours.....Miss Hemlow.

13. Technique of the Drama. (Full Course)
Three hours; one laboratory period a week on Mon., Tu., Wed., Th., or Fri. 3:30-5:30 p.m. as convenient to students.
Mr. Hall and other members of the Department.

13L. Laboratory—Play Production for the Teacher of English—Scenery, Lighting, Costume etc. May be counted as a Half Course.
Three hours a week.....Mr. Hall and Assistants.

14. Chaucer. (Full Course)
Three hours.....Miss Hemlow.

14b. Spenser and Milton. (Half Course)
Second term.....Miss Hemlow and Mr. Klein.
(Not given in 1947-1948)

15b. American and Canadian Literature. (Half Course)
Second Term: Three hours.....Professor Files and Mr. Klein.

16. Comparative Literature. (Full Course)
The influence of English Literature upon the continent of Europe in the 18th and 19th centuries. *Also listed under French 49.*
Three hours.....Professor Noad.
(Not given in 1947-1948)

17. COMPARATIVE LITERATURE. (Full Course)
The literary influence of the Continent upon England since the Renaissance.
Three hours . . . . . Professor Noad.

19a. ENGLISH LITERATURE FROM 1611 TO 1660. (Half Course)
First term: Three hours . . . . . Professor ———— and Mr. Falle.

19b. ENGLISH LITERATURE OF THE RESTORATION (1660-1700). (Half Course)
Second term: Three hours . . . . . Professor ————

20b. EARLY ENGLISH: ENGLISH LITERATURE FROM 1200 TO 1450. (Half Course)
Second term: Three hours . . . . . Miss Hemlow.
Open only to students who have taken Course 12, or its equivalent.

21a. POLITICAL SATIRE SINCE THE RENAISSANCE. (Half Course)
First term: Three hours . . . . . .
(Not given in 1947-1948)

22. AN ADVANCED COURSE IN THE TECHNIQUE OF THE DRAMA. (Full Course)
Prerequisite: English 13 or its equivalent.
The attendance in this course is limited to twenty. Application for admission should be made at the beginning of the session. Three hours. Two laboratory periods a week, selected from Mon., Tues., Wed., Th., Fri., 3:30-5:30 . . . . . Mr. Hall and other members of the Department.

22L. LABORATORY—PLAY PRODUCTION FOR TEACHERS OF ENGLISH—Casting, Directing, Budgeting. May be counted as a Half Course.
Three hours a week . . . . . Mr. Hall and Assistants.

23. STUDIES IN LITERATURE SINCE 1900. (Full Course)
Contemporary authors English and American. Open only to those who have taken English 10 or have received the permission of the professor. The registration is limited.
Three hours . . . . . Professor Files.
(Not given in 1947-1948)

24. HISPANIC CONTACTS WITH EUROPEAN LITERATURE. (Full Course)
Three hours . . . . . Professor Noad.
A study of relations between the literature of Spain and those of other countries, particularly England and France.

25b. Modern Drama. The Literature of the Twentieth Century Theatre. (Half Course)
Second term: Three hours . . . . . Mr. Dando.

26a. The Forms and Technique of Poetry. (Half Course)
First term: Three hours. . . . . Mr. Klein.

27. The Great Writings of Europe. (Full Course)
Three hours . . . . . Members of the English Department and of Allied Departments under the direction of Professor Noad.

See also Classics 20.

Note

Courses 4, 6, 7, 13, 15b, 19a and 19b are open to students in the Second Year. Registration in 3, 6, 13, 20b, 21a, 22, 23 and 27 is limited.

Honours Courses

Second Year: Two courses selected from 4, 6, 7, 8, 9a, 9b, 13, 15b, 19a, 19b.

Third Year: Four courses.

Fourth Year: Four courses. A course in a cognate subject may be taken, with the permission of the Department.

Compulsory courses for Honours are 12, and two full courses from the following: 6, 7, 9a, 9b, 10, 11a, 11b, 14, 19a, 19b, 21a and 23.

English Requirements for the Honours Courses in English and Latin, English and French, and English and German

Second Year: Consult the chairman of the Department.

Third Year: Two courses, chosen with the approval of the Department.

Fourth Year: Two courses, chosen with the approval of the Department.

Course 12 and one course selected from 6, 7, 9a, 9b, 10, 11a, 11b, 14, 17, 19a, 19b, 21a, 23 and 27 are compulsory.

English Requirements for Honours in English and Other Subjects

Second Year: Consult the Chairman of the Department.

Third Year: Two courses chosen with the approval of the Department.

Fourth Year: Two courses chosen with the approval of the Department.

One full course selected from 6, 10, 12, 14, 23 and 29 is compulsory in either the Third or the Fourth Year.

Final General Examination. Every candidate for Honours in English or English and another subject, must pass, near the close of his last year, a special general examination, either oral or written, conducted by a committee of the Department.

Graduate Courses

See the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF GENETICS

Assistant Professors . . . . . J. W. Boyes, L. Butler

Lecturers . . . . . E. R. Boothroyd, F. C. Fraser, D. H. Jolly

21a. (Part of 1) Introduction to Genetics. (Half Course)
First term: Three hours, a two-hour laboratory period.
. . . . . Professor Boyes (Montreal).
Dr. Boothroyd (Dawson).
Basic principles of genetics plus laboratory experience with problems and practical work.
Prerequisites: Any two of Botany 11a *or* 11b *or* Zoology 11a *or* 11b *or* the equivalent *or* Physiology 21, any one of which may be taken concurrently with Genetics 21a.
Text: Snyder, The Principles of Heredity, Third Edition.

21b. (Part of 1) Human Heredity and Evolution. (Half Course)
Second term: Three hours . . . . . Professor Boyes (Montreal).
Dr. Boothroyd (Dawson).
Human heredity with particular reference to disease, mental conditions and eugenics; introduction to the theory of evolution in the light of genetic principles.
Prerequisite: Genetics 21a.

32a. (2b) Cytology. (Half Course)
First term: Two hours and a three hour laboratory period.
. . . . . Professor Boyes and Dr. Boothroyd.
The protoplasmic organization of the animal and plant cell.
Prerequisite: Genetics 21a. (old Genetics 1.).
Text: Sharp, Fundamentals of Cytology.

32b. (3b) Cytological Technique. (Half Course)
Second term: Six hours laboratory.
. . . . . Professor Butler and Dr. Boothroyd.
Prerequisite: Genetics 32a (old Genetics 2b) unless special permission is obtained from the instructors.

36b. (6b) Developmental Genetics. (Half Course)
Second term: Three hours . . . . . Dr. Fraser.
Studies in the genetic control of development and differentiation.
Prerequisites: Genetics 21a (old Genetics 1) and Zoology 22b (Enbryology).

43b. (New) Advanced Genetics and Cytogenetics. (Half Course)
Second term: Three hours. . . . . Professor Boyes and Staff.
Advanced work, including linkage, polyploidy, apomixis, hybridization and irradiation effects.

Prerequisites: Genetics 21a (old Genetics 1) and 32a (old Genetics 2b).

44. (4) Biometry. (Full Course)
Two hours and three hours of computation to be arranged.
. . . . . Professor Butler.
Elementary statistics and their application to problems in Biology.

Prerequisite: Permission to register.

45a. (5a) Genetic Interpretation of the Mechanics of Evolution. (Half Course)
First term: Three hours . . . . . Professor Boyes.

Prerequisites: Genetics 21a (old Genetics 1), and 32a (old Genetics 2b) which may be taken concurrently.

Text: Dobzhansky, Genetics and the Origin of Species, Revised Edition.

47a or b. (New) Special Topics. (Half Course)
This course is for advanced students who wish to read extensively in a particular field or undertake a minor research problem in Genetics or Cytology . . . . . The Staff.

Honours Course

Students who contemplate graduate studies and research in Genetics or Cytology are advised to take the Honours Course in Functional Biology or in the biological department in which their chief interest lies.

Graduate Courses

See the Announcement of the Faculty of Graduate Studies and Research.

GEOGRAPHY

Professor . . . . . G. H. T. Kimble
Assistant Professors . . . . . F. K. Hare, J. R. Mackay
Graduate Assistant . . . . . Miss B. J. Stephens

First Year

12. (1) The Elements of Physical Geography. (Full Course)
Three hours . . . . . Professors Hare and Mackay.
(In Science Division). *No prerequisites required.*

Scientific study of man's habitat. The course is divided into three main parts:

A. Lands and seas. Study of landscape evolution under different climates: general characteristics and circulation of ocean waters. Distribution of plants and animals.

B. The atmosphere. Measurement of physical properties of atmosphere; weather processes. World climates: principal types, causes and characteristics. Climatic control of human activity.

C. Natural regions. Definitions, world distribution and analysis.

Parts A and B will include practical map and instrument work, the latter in the Observatory.

Second and Third Year Courses

21a. (2) The General Principles of Geography. (Half Course)

First term: Three hours . . . . . Professor Kimble.

(In Arts Division). *Prerequisite:* Geography 12 or Geology 1.

Connotation of geography; its historical evolution, scope and aims. Relation of subject to humanities and other sciences. Terminology. Systematic and regional approaches to geography. Dynamic nature of geographic environment. Impermanence of physical and cultural distributions. Selected areal studies (ancient and modern societies) to illustrate major principles underlying man-land relationships.

22. (4) Practical Geography. (Full Course)

One hour and laboratory periods . . . . . Professor Mackay.

(In Science Division). *Prerequisite:* Geography 12 or Geology 2a.

The construction and properties of common map projections. The analysis of topographic maps and aerial photographs. Photogrammetric techniques. Reconstruction of cultural landscape from cartographic evidence. Study of British, U.S., Canadian and European topographic series. Special purpose maps: e.g. land use, commodity, population, etc.: their construction and interpretation. Weather permitting, this course will include practical fieldwork in the Montreal area.

23b. The Habitable Earth. (Half Course)

Second term: Three hours . . . . . Professor Kimble.

(In Arts Division). *Prerequisite:* Geography 21a.

The expansion of the 'oikoumene' in historic times. Population patterns and densities. Geographical frontiers of settlement with special reference to tropical and sub-arctic regions. Racial variations in climatic tolerance. Modern pioneering techniques and problems. Conservation of natural resources (e.g. soils, forests, waters, fisheries, etc.). Principle of permissive occupance.

Third and Fourth Year Courses

31. (5) The Geography of North America, with special reference to Canada. (Full Course)
Three hours.....Professor Kimble.
(In Arts Division). *Prerequisite:* Geography 12 or 21a and 23b.

33. The Geography of Latin America. (Full Course)
Three hours.....Professor Kimble.
(In Arts Division). *Prerequisite:* Geography 12 or 21a and 23b.
(Not given in 1947-48)

35. (6) The Geography of Europe. (Full Course)
Three hours.....Professor Hare.
(In Arts Division). *Prerequisite:* Geography 12 or 21a and 23b.
(Not given in 1947-48)

37. The Geography of the Orient. (Full Course)
Three hours.....Professor Mackay.
(In Arts Division). *Prerequisite:* Geography 12 or 21a and 23b.

In courses 31, 33, 35 and 37, the general principles adumbrated in courses 12, 21a and 23b are applied to specific environments. These are studied primarily from the standpoint of their physical and cultural distributions, including the areal localisation of ways of living, past and present. The importance of the environment in human affairs is assessed, and the findings applied to contemporary problems.

41. Economic Geography. (Full Course)
Three hours.....Professor Hare.
(In Arts Division). *Prerequisite:* Geography 12.

Course is in two parts, of which the *first* only may be taken as a half course.

A. First term. Factors influencing location of industry (both basic and secondary), agriculture and urban development, with special reference to North America and British Isles.

B. Second term. World distribution of main producing and consuming areas. Transportation; its economic significance and relation to geographic controls. The evolution of transportation patterns in North America.

42a. (7) The Technique of Regional Studies. (Half Course)

First term: Three hours . . . . . Professors Hare and Mackay. (In Science Division). *Prerequisite:* Geography 12 or Geology 2a.

The idea of regional survey. Surveys of land use. Classification of land according to fertility, site and existing use (e.g. agricultural, industrial, waste). Optimum land use in relation to functional requirements.

Study of existing regional surveys and projects: the Land Utilisation Survey of Great Britain, the Tennessee Valley Authority and other North American projects. Geographical significance of soil erosion and conservation. Spread of cities across agricultural land.

43. (9) Historical Geography. (Full Course)

Three hours . . . . . Professor Kimble. (In Arts Division). *Prerequisite*: Geography 21a and 23b.

Relations between man, habitat and economy in early, medieval and modern times. Reconstructing the geographical milieu of past cultures. Geographical conditioning of historic trade routes, migrations and colonisations. Climate and civilisation.

44. Meteorology. (Full Course)

Three hours . . . . . Professor Hare. (In Science Division). For Honours in Mathematics and Physics students only.

Physical properties of the atmosphere. Radiation and the heat balance; the causes of atmospheric circulation. Vertical motion in the atmosphere, and formation of clouds and rain. Winds and pressure distribution. General circulation of atmosphere and development of fronts. Anticyclones and depressions. Climates of the world: regional meteorology.

Use of meteorological instruments. International codes and plotting symbols. Practical work on synoptic charts from selected daily records. Work will include tuition in the Observatory.

45b. Political Geography. (Half Course)

Second term: Three hours . . . . . Professor Kimble. (In Arts Division). *Prerequisite:* Geography 12 or 21a and 23b.

Relations between the earth and the state. Geopolitical ideas from Strabo to Haushofer. Environmental basis of race, culture and nation concepts. Geography of frontiers. The changing map of Europe and the Far East. Geographical aspects of some modern national problems.

(Not given in 1947-48)

Honours Courses

First year students intending to take Honours in Geography should consult the Department before the end of the session. Such students will normally be required (1) to have passed Geography 12 with at least good second class standing before being admitted to the Honours school, and (2) to make their selection of second, third and fourth year courses from the following list:

I. B.A. Candidates

Second Year: Geography 21a, 22 (compulsory), 23b: Geology 1, 2a: Sociology 1: Economics 1.

Third Year: Geography 31 (compulsory), 33, 35, 37: Economics 6, History 4.

Fourth Year: Geography 41 (compulsory), 42a, 43, 45b: Sociology 3b (or 6b) and 5a.

II. B.Sc. Candidates

Second Year: Geography 21a, 22 (compulsory), 23b: Geology 1 (compulsory); plus one or more approved courses in Botany, Physics or Mathematics.

Third Year: Geography 31, 33, 35, 37; plus one or more approved courses in Geology, Physics, Surveying or Mathematics.

Fourth Year: Geography 41, 42a, 44, 45b; plus one or more approved courses in Geology or Physics.

Note: With the consent of the Department, the Geography courses prescribed for the third and fourth years can be inter-changed.

GEOLOGICAL SCIENCES

Professors . . . . . John J. O'Neill; R. P. D. Graham (Post-retirement); T. H. Clark

Associate Professors . . . . . J. E. Gill; F. F. Osborne; A. W. Jolliffe

Demonstrators . . . . .

1. General Geology (Eng. 141). (Full Course)
Second or First Year.
Two hours . . . . . Professors Clark and Jolliffe.
and two hours laboratory, sections to be announced at first meeting; five or six excursions during October and November.

The Earth and the Solar System. Its composition by minerals and rocks. Erosive forces (weather, wind, rivers, waves, etc.) modify-

ing its surface, and deformative factors (temperature, compression, etc.) affecting its subsurface structure are thoroughly treated. The origin and historical development of the earth and of living things are briefly considered.

Text: Longwell, Knopf, Flint, Schuchert, and Dunbar. Outlines of Geology, 1941 (Wiley).

2a. PHYSIOGRAPHY. Third or Second Year. (Half Course)
First term: Two hours and one laboratory period. . . . . Professor Gill.

Prerequisite: 1.

A study of the surface features of the earth, their origins, changing aspects and influence on human activities. Special attention is given to the significance of various land forms in relations to soils, bedrock, rock structure and the distribution of natural resources. Maps, photographs, and local topographies provide illustrations.

Text: Lobeck, Geomorphology, 1939 (McGraw-Hill).

3a. STRATIGRAPHY. Third Year. (Half Course)
First term: Two hours, one hour laboratory, and two full days of field work during October . . . . . Professor Clark.

Prerequisite: 1.

(1) Sedimentation—weathering; sources and origin of sedimentary rocks; significance of their textures and structures; the structural relationship of strata.

(2) Correlation—index fossils; stratigraphic nomenclature; geological timetable; areal distribution of sedimentary rocks.

Reference is made throughout the course to matters of economic importance.

Text: Twenhofel, Principles of Stratigraphy.

4b. GEOLOGY AND NATURAL RESOURCES OF CANADA (Eng. 149.)
Fourth Year. (Half Course)
Second term: Two hours and one laboratory period. . . . Professor Gill.

Prerequisite: 1, 10.

A systematic survey of the surface features, soils, bedrock geology, mineral resources, forests, water powers and other resources of Canada. Maps and photographs are used to illustrate the course.

5. MINERALOGY (Eng. 142 and 142a).*
Two hours . . . . . Professor Graham.

Lectures in the first part of the course deal with the physical properties and chemical composition of minerals, and with crystallography. The more important ores, industrial minerals, and rock-

*5 and 6 together make a full course and may be taken in the second or third year.

forming minerals are then described, with particular emphasis, in the case of the economic minerals, on uses and source of supply.

Text: Kraus, Hunt & Ramsdell, Mineralogy, 1936 (McGraw-Hill).

6. Determinative Mineralogy (Eng. 143 and 143a).
One laboratory period . . . . . Professor Graham.

Instruction is given in methods for the determination of the constituents of minerals by blowpipe analysis and related chemical tests. These tests and general physical characters are then applied in the identification of some 150 mineral species.

7a. Structural and Field Geology (Eng. 147). (Half Course)
Third Year.
First term: Two hours and one laboratory period . . . . . Professor Gill.

Prerequisite: 1, 5, 6b.

A description of field methods is followed by a systematic survey of rock structures, their origins and practical importance. Six afternoons are devoted to field work and six to problems.

References: Lahee, Field Geology, 1941 (McGraw-Hill); Billings, Structural Geology, 1942 (Prentice-Hall).

8. Ore Deposits (Eng. 148). Fourth Year. (Full Course)
Second term: Two hours per week; one laboratory period.
Professors O'Neill and Jolliffe.

Prerequisite: 7 and 10.

Nature, origin, mode of occurrence and classification of deposits of metallic, and of important non-metallic minerals; typical occurrences; geographical distribution.

References: Emmons, Principles of Economic Geology, 1940 (McGraw-Hill); Bateman, Economic Mineral Deposits, 1942 (Wiley).

9a. Optical Crystallography. Third or Fourth Year. (Half Course)
First term: One hour and one laboratory period . . . . Professor Jolliffe.

Prerequisite: 1, 5, 6.

Topics covered in the lectures include refraction and double refraction, polarization of light, and the nature of and reason for the various optical characters exhibited by crystals. The laboratory course gives practice in the determinations of these characters, using the polarizing microscope, axial angle and other instruments.

10b. Petrology (Eng. 146). Third Year. (Half Course)
Second term: Two hours and one laboratory period . . Professor Osborne.

Prerequisite: 1, 5, 6.

The common igneous, sedimentary and metamorphic rocks are described and their modes of occurrence discussed. In the laboratory, the student learns to identify such rocks by methods used in the field.

Text: Pirsson & Knopf, Rocks and Rock Minerals, 1926 (Wiley).

12b. PALEONTOLOGY. Third or Fourth Year. (Half Course)

Second term: Two hours and one laboratory period, and one full day's field work in April. . . . . Professor Clark.

Prerequisite: 1 or Zoology 1.

The development of ideas concerning the origin of fossils. Kinds of fossils. Collecting, preparation, and naming of fossils. Brief survey of systematic paleontology, following the standard biological classification, with emphasis on fossil animals. The stratigraphic and economic importance of paleontology. The influence of paleontology upon the doctrine of evolution.

13. SCIENCE IN ECONOMIC LIFE I. Second or Third Year. (Full Course)

Three hours per week. . . . . Professor Osborne.

This course for B.A. and B.Com. students presents selections of material from earth and related sciences in order that an appreciation of the effects of the physical environment on the individual and the nation may be developed. No prerequisites.
Assigned readings.

HONOURS COURSES

Second Year: Geology 1, 5, 6; 1 course in Chemistry and 2 other courses to be arranged.

Third Year: Geology 7a, 10b, 2a and 12b; Chemistry 4; other courses to be arranged.

Fourth Year: Geology 8, 9a, 3a, 4b, and additional courses as advised.

NOTE: It is desirable that courses in surveying, mapping, and draughting be included in the Honours course in most cases.

If Geology 1 is taken in the first year, advanced courses may be taken in the second and third years, as advised.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

GERMAN

Associate Professor . . . . . W. L. GRAFF
Assistant Professor . . . . . MISS B. MEYER
Lecturer . . . . . V. R. BLOCK

Any one of the following courses may be taken only by students of those undergraduate years for which it is reserved according to the instructions below. However, for special reasons approved by the Department, a student of any year may be permitted to take any German course, provided no timetable conflict is caused thereby.

1. GERMAN LANGUAGE. First and Second Years. (Full Course)
Three hours . . . . . Miss Meyer and Mr. Block.
(Beginners' B.A. Course).

Texts: Curts, Basic German, Revised Edition (Prentice Hall, 1946); D. Koischwitz, Deutsche Fibel (Crofts).

Students intending to proceed to Course 5 from the above must have obtained a High Second Class and are required to read during the summer the following: P. Hagboldt, Eulenspiegel und Münchhausen (Heath); and T. Storm, Immensee.

Those intending to proceed to Course 7 must have obtained a First Class and are required to study during the summer the following texts: Viebig, C., Der Gefangene (Crofts); Kastner, Emil und die Detektive (Holt & Co.); Schrakamp, Ernstes and Heiteres (A. B. Co.).

2. GERMAN LANGUAGE. First and Second Years. (Full Course)
Three hours . . . . . Professor Graff.

Prerequisite: German 1 or Matriculation in German, or their equivalent.

Texts: Evans M. B. and Roseler R. O., College German, 4th edition, 1939 (Crofts); Schiller, Das Lied von der Glocke (Heath); W. Diamond and C. B. Schomaker, Lust und Leid (Holt Co.); F. Bruns, A Book of German Lyrics (Heath Co.).

Private reading: P. Hagboldt, Eulenspiegel und Münchhausen.

3. GERMAN LANGUAGE. First and Second Years. (Full Course)
Three hours . . . . . Miss Meyer and Mr. Block
(Beginners' B.Sc. Course.)

Texts: Curts, Basic German, Revised Edition (Prentice Hall, 1946); Fiedler and Sandbach, First Science Reader for German Students (Oxford Univ. Press).

Students intending to proceed from Course 3 to an Arts Course must have obtained a first or high second class and are required to read during the summer P. Olman, Der Onkel aus Amerika (Prentice-Hall).

4. GERMAN SCIENCE READING COURSE. Second and Third Years.
(Half Course)
One hour . . . . . Mr. Block.

Prerequisite: German 1 or German 3 or Matriculation in German.

Text: Curts, Readings in Scientific and Technical German (Holt & Co.).

5. GERMAN LANGUAGE. Second and Third Years. (Full Course)
Three hours . . . . . Miss Meyer.

Texts: Osthaus & Biermann: German Prose Composition (American Book Co.); Schiller, Maria Stuart (Holt); Porterfield, Modern German Stories (Health).

Private readings: Riehl, Der Fluch der Schönheit (Heath); Schnitzler, Der blinde Geronimo und sein Bruder (Heath & Co.).

6. GENERAL SURVEY OF GERMAN LITERATURE FROM LESSING TO MODERN EXPRESSIONISM. Second and Third Years.
Professor Graff and Miss Meyer.

This course is given in English for students who do not know enough German to understand lectures given in that language. It is not open to those who are taking or have taken any of the courses listed as German 8, 9, 10, 11, 12, 13.

7. GERMAN LANGUAGE AND LITERATURE. Second and Third Years.
(Full Course)
Three hours . . . . . Professor Graff.

Texts: Klarmann and Gorr, German Readings and Composition (Harper and Brothers); Goethe, Egmont (Holt); Lessing, Nathan der Weise (A. B. Co.).

Private readings: Th. Mann, Tonio Kroger (Crofts & Co.); Grillparzer, Der arme Spielmann (Heath & Co.).

No student may proceed from German 1 to German 7 unless he has completed the summer work as given under course 1.

German Conversation: Students of the Second Year intending to continue German in the Third Year must attend a class in Oral German (one hour a week) until in the Professor's opinion they have reached a satisfactory standard.

NOTE: In order to be admitted to the following courses a student must know German well enough to understand lectures delivered in German and express himself in German with some degree of fluency and correctness.

8. GERMAN LITERATURE IN THE 18TH CENTURY. (Full Course)
Third and Fourth Years.
Three hours a week. . . . . Miss Meyer.

Texts: Lessing, Emilia Galotti (Ginn); Goethe, Iphigenie; Schiller, Wallenstein; Stroebe & Whitney, Geschichte der Deutschen Literatur, Whitney & Stroebe, Exercises in German Syntax and Composition, for Advanced Students (Holt).

Private readings: Lessing, Minna von Barnhelm; Goethe, Urfaust; Schiller, Kabale und Liebe.

9. German Literature in the 19th century. (Full Course)
Third and Fourth Years.
Three hours . . . . . Professor Graff.
The important literary movements and writers of the 19th century are studied and discussed. Collateral readings.

10. From Naturalism to Expressionism. Fourth Year. (Full Course)
Three hours . . . . . Professor Graff.
Prerequisites: German 8 and 9.

11. Middle High German Language and Literature. (Full Course)
Third and Fourth Years.
Two hours . . . . . Professor Graff.
Texts: A. Senn, An Introduction to Middle High German (Norton & Co., N.Y.).

12. German Lyrical Poetry. Third and Fourth Years. (Half Course)
One hour . . . . . Professor Graff.
Text: F. Bruns. Die Lese der deutschen Lyrik (F. S. Crofts & Co.).

13. History of the Tragedy in German Literature. (Full Course)
Third and Fourth Years.
Two hours . . . . . Professor Graff

Linguistics 21. Introduction to the Study of Language.
Available to Second and Third Year students. (Full Course)
Three hours . . . . . Professor Carruthers.
An elementary survey of human speech, its nature, origin, structure and classification; principles of linguistic change; writing and the alphabet; universal and auxiliary languages.
(Given in the Department of Classics.)

Honours Courses

The selection of Honours Courses in German must be approved by the Department.

Students honouring in the Second Year must choose two full courses from the following: German 5, 7, 8.

In the Third and Fourth Years one full course must consist of either German 11 and 12 or German 12 and 13. The other full course must be chosen from German 8, 9 or 10.

Students may begin Honours in German in the Third Year, if in the opinion of the Department they are qualified to do so.

Graduate Courses

See the Announcement of the Faculty of Graduate Studies and Research.

The Department offers a special course, open to candidates for the Ph.D. degree in the various disciplines of Arts and Science, and designed to help them acquire the necessary reading knowledge of the language. The course is given once a week, the day and the hour to be arranged.

HISTORY

Professors ..... E. R. Adair, H. N. Fieldhouse
Assistant Professors ..... C. C. Bayley, J. I. Cooper
Sessional Lecturer ..... W. S. Reid

Courses for General Students

1. European Civilization in the Mediaeval and Modern Periods. First Year. (Full Course)
Three hours ..... Professors Bayley and Fieldhouse.

OR

1S. Ancient History.* First Year. (Full Course)
Three hours ..... Professor Carruthers and .....
Students in History desiring to take course 1S should read the notes below on Continuation and Honours Courses in History.

2. General History of North and South America. Second Year. (Full Course)
Three hours ..... Professor Adair.

3. History of the British Empire. Second Year. (Full Course)
Three hours ..... Professor Cooper.
With the consent of the Department, this course may be taken by Third Year students.

4. History of Canada. Third Year. (Full Course)
Three hours ..... Professor Cooper.
An additional Seminar in advanced Canadian History, of one hour per week will be given to Honours students: time to be arranged.
With the consent of the Department, this course may be taken by Fourth Year students.

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*See under Department of Classics.

5. General English History with special emphasis on the Modern Period. Fourth Year. (Full Course)
Three hours . . . . . Dr. Reid.
With the consent of the Department, this course may be taken by Third Year students.

6. History of Europe with Special Reference to International Relations, 1789-1939. Fourth Year. (Full Course)
Three hours . . . . . Professor Fieldhouse.
With the consent of the Department, this course may be taken by Third Year students.

7a. History of Diplomacy, with special reference to British Foreign Policy since 1815. Fourth Year. (Half Course)
First term: Three hours . . . . . Professor Fieldhouse.
With the consent of the Department this course may be taken by Third Year students.

8b. England in the Twentieth Century, with Special Stress on the Economic and Social Background. Fourth Year. (Half Course)
Second term: Three hours . . . . . Dr. Reid.
With the consent of the Department, this course may be taken by Third Year students.

9. Problems in recent European History: a comparative study of Modern European political and social ideas and modern European revolutions. Fourth Year. (Full Course)
Three hours . . . . . Professor Fieldhouse.
With the consent of the Department, this course may be taken by Third Year students.

Courses Specially For Honours Students

10. Mediaeval Life and Institutions. Second Year. (Full Course)
Three hours . . . . . Professor Bayley.

11. History of Modern Europe to 1789. Third Year. (Full Course)
Three hours . . . . . Professor Adair.

12. The Government of England, the United States and Canada: A Comparative Survey. Fourth Year. (Full Course)
Three hours . . . . . Professor Bayley.

13. History of Economic and Social Conditions, with Special Reference to England. Fourth Year. (Full Course)
Three hours . . . . . Professor Adair.

Additional Courses

14. Canada and the United States; Their Diplomatic Relations and Economic History from Colonial Times to the Present.
(*a*) From Colonial Times to 1861. (Half Course)
First term: Three hours . . . . . Professor Cooper.
(*b*) From 1861 to the Present. (Half Course)
Second term: Three hours . . . . . Professor Cooper.

15. Intellectual History of Modern Europe. (Full Course)
Three hours . . . . . Dr. Reid.

16a. The History of Scotland, with special emphasis on the period after the Reformation. (Half Course)
First term: Three hours . . . . . Dr. Reid.

Courses 14, 15 and 16a are open to students in Arts, Science and Commerce of the Third and Fourth Years. 14A and 14B may each be taken as a half course, but unless 14A has already been taken, a student who desires to take 14B must first obtain the consent of the Department to do so. Courses 14, 15 and 16a may not be taken as continuation courses.

Special Subjects

England in the Age of Wyclif.
England under the Early Stuarts.
French Canada in the 18th Century and its relation with the English Colonies.
England under the Victorian Compromise (1837-1867).
Social Reconstruction in Pre-War England (1895-1914).
Origins of the First World War: Europe 1870-1914.
A Selected Topic in Canadian History (1867-1896).
A Period or Aspect of Ancient History.*

Note: A choice of one of these special subjects for continuous study by Honours students during their Third and Fourth Years is made in consultation with the Department. Students will be expected to acquire a general knowledge of the subject selected and to make each year a more intensive study from original sources of one of its aspects.

Students taking History as a continuation subject will take the following courses:

First Year: History 1.
Second Year: History 2 *or* History 3.
Third Year: History 4.
Fourth Year: One of the following: History 5, History 6, History 7a and 8b, History 9.

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*For courses in Ancient History, see under the Department of Classics.

This represents the minimum requirements; additional courses in History may be taken if the student desires.

General students taking History as a continuation subject may, if they so desire, take course 1S (Ancient History) in their First Year. If they do so, they must take History 1 in their Second Year, and either History 2 or History 3 in their Third Year.

Unless the special consent of the department is obtained, History 1 must be taken as a prerequisite to History 2 or History 3 for all students taking History as a continuation or Honours subject.

Before being admitted to Honours standing in History, students are expected to have a knowledge of French and of Latin. The latter requirement may be satisfied by a First Year college course following matriculation Latin, or, at the discretion of the Department, by high ranking in Latin in a matriculation examination.

Students taking Full Honours in History will take the following courses:

First Year: History 1, and four courses in other subjects.

Second Year: History 2 and 10.
Three approved courses in other subjects, at least one of which must be a foreign language.

Third Year: History 4 and 11. One of the special subjects in History.
An approved course in another subject.

Fourth Year: History 6, 12, and 13.
Continuation of the special subject begun in the Third Year.

Students taking Honours in History and another subject will take the following courses in History.

Second Year: History 2 and 10.

Third Year: History 4 and 11.

Fourth Year: History 12, and either 6 or 13.

Honours students taking History 6 in their third year as an extra or as part of their special subject may substitute History 9 or History 7a and 8b for History 6 in their fourth year.

NOTE: In addition to the examination on the subjects taken in the last year, Fourth Year Honours students have a general examination paper on the history studied by them in their four years.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

LAW

Lecturer . . . . . Mr. Maxwell Cohen

1. International Law and Organization. (Full Course)

Two hours with readings, essays, etc.,

to be arranged . . . . . Mr. Cohen.

This course is open to third and fourth year students in the Faculty of Arts and Science.

MATHEMATICS

Professors	C. T. Sullivan N. B. MacLean A. H. S. Gillson W. L. G. Williams
Associate Professors	H. Tate P. R. Wallace
Assistant Professors	W. B. Ross E. Rosenthall C. D. Solin
Sessional Lecturers	R. D. Fullerton A. J. Looker R. Bott H. Kaufman J. Lambek J. Mamelak S. Melamed
Demonstrators in Mathematics	M. Bercovitch C. S. Hodge J. Le Bel D. J. Morantz N. E. Smith P. A. Tate L. P. Wood J. Zweig

First Year

There are three groups of students taking first year mathematics:

(*a*) Courses 11a and 12b are normally taken by students not intending to enter the Faculty of Engineering. But students who have had Intermediate Algebra and Trigonometry may take 15a and 14b.

Courses 13a and 13b are available to those whose matriculation standing is particularly high. These courses are of a more advanced nature and concentrate on the development of facility in doing difficult and interesting problems. Students who contemplate an Honours Course associated with Mathematics are advised to consider taking courses 13a and 13b.

(*b*) Pre-engineering students who have had Intermediate Algebra and Trigonometry take courses 15a and 14b.

(*c*) Pre-engineering students who have not had Intermediate Mathematics take courses 11a and 14a, 14b and 15b. *Note*: For these students, the additional two half-courses (14b and 15b) replace the elective course normally required of all B.Sc. 1 students.

11a. PLANE TRIGONOMETRY. (Half Course)

First term: Three hours . . . . . Various members of the staff.
The elements of plane trigonometry, up to and including the solution of triangles by logarithms.

Text: H. Tate, Elementary Mathematical Analysis (Pitman).

12b. ANALYTIC GEOMETRY AND ALGEBRA. (Half Course)

Second term: Three hours . . . . . Various members of the staff.
The elements of the analytic geometry of the straight line, circle, and parabola. Variation, progressions, permutations and combinations, binomial theorem.

Texts: H. Tate, Elementary Mathematical Analysis (Pitman).

13a. ADVANCED TRIGONOMETRY. (Half Course)

First term: Three hours . . . . . Professor Williams.
Treatment of topics in trigonometry not covered for matriculation, including graphs of trigonometric functions and graphical solution of equations.

Text: MacRobert and Arthur, Trigonometry, Part I (Methuen).

13b. ADVANCED ALGEBRA AND ANALYTIC GEOMETRY. (Half Course)

Second term: Three hours . . . . . Professor Williams.
Among the topics included are binomial theorem, summation of series, sigma notation, mathematical induction; and an introduction to the Analytic Geometry of the straight line, circle, and parabola.

Texts: Brown and Manson, Elements of Analytic Geometry (MacMillan); Barnard and Child, A New Algebra, Vol. II (MacMillan).

14a. ALGEBRA. (Half Course)

First term: Three hours . . . . . Professor MacLean and others.
Logarithms, variation, progressions, permutations and combinations, binomial theorem, theory of quadratics, graphs.

Text: H. Tate, Intermediate Algebra (Pitman).

14b. Analytic Geometry. (Half Course)

Second term: Three hours . . . . . Professor MacLean and others.

The analytic geometry of the straight line, circle, and parabola.

Text: Young, Fort and Morgan, Analytic Geometry (Houghton Mifflin).

15a. Auxiliary Trigonometry. (Half Course)

First term: Three hours . . . . . Professor Rosenthall.

Logarithmic solution of triangles, heights and distance problems in three dimensions, circles connected with the triangle, quadrilateral, trigonometric equations, inverse trigonometric functions, small angles, limits and approximations, graphs of trigonometric functions.

Text: H. Tate, Elementary Mathematical Analysis (Pitman).

15b. Auxiliary Trigonometry. (Half Course)

Second term: Three hours . . . . . Professor MacLean.

Same as 15a but given in second term.

Courses for General Students

23a. Analytic Geometry and Curve Fitting. (Half Course)

First term: Three hours . . . . . Professors MacLean and Tate.

The analytic geometry of the straight line, circle and parabola with application to curve fitting.

Text: C. H. Sisam, *Analytic Geometry* (Holt).

23b. Theory of Interest. (Half Course)

Second term: Three hours . . . . . Professors MacLean and Tate.

Simple and compound interest, discount, annuities certain, sinking funds, bonds, elementary interpolation.

Text: H. Tate, *Mathematical Theory of Interest* (Pitman).

24. Elementary Calculus. (Full Course)

Three hours . . . . . Professor Williams and others.

Limits, differentiation and integration of elementary functions with applications, curvature, expansion of simple functions in infinite series, partial differentiation.

This course is intended to give students of biochemistry, chemistry, economics, and sociology a working knowledge of the elements of calculus.

Texts: Differential and Integral Calculus, R. R. Middlemiss (McGraw-Hill); Elementary Calculus, A. S. Ramsey (Cambridge Univ. Press).

Honours Courses

Second Year:

25. Calculus. (Full Course)

Three hours . . . . . Professor ————

A course of a higher standard than 24, for students proceeding in Honours and for other qualified students.

Text: Lamb, Infinitesimal Calculus (Cambridge Univ. Press).

26a. Plane Analytic Geometry. (Half Course)

First term: Three hours . . . . . Professor MacLean.

The conic sections and their geometrical properties treated analytically, the general equation of the second degree, polar co-ordinates.

Text: Brown and Manson, Elements of Analytic Geometry (MacMillan).

27b. Algebra. (Half Course)

Second term: Three hours . . . . . Professor MacLean.

Elementary theory of equations, determinants, complex numbers, cross-ratios, theory of inversion.

Text: L. E. Dickson, New First Course in the Theory of Equations (Wiley).

28a. Spherical Trigonometry and Astronomy. (Half Course)

First term: Three hours. . . . . Professor Ross.

Geometry of the sphere, solution of spherical triangles, celestial sphere, calendar, positions of the heavenly bodies, determination of geographical position, tidal phenomena.

Texts: Murray, Spherical Trigonometry (MacMillan); Barlow and Bryan, Mathematical Astronomy (University Tutorial Press); H. S. Jones, General Astronomy (MacMillan).

Third Year:

31a. Statics, Dynamics of a Particle, and Rigid Dynamics (Physics 31). (Half Course)

First term: Three hours . . . . . Professor Terroux.

Dynamics of a particle in one and two dimensions, motion of pairs of particles, introduction to dynamics of rigid bodies, mass systems.

Texts: Lamb, Statics, and Lamb, Dynamics (C.U.P.); Synge and Griffith, Principles of Mechanics (McGraw-Hill).

31b. STATICS, DYNAMICS OF A PARTICLE, AND RIGID DYNAMICS. (Half Course)

Second term: Three hours ..... Professor Gillson.

Central orbits, elements of rigid dynamics in two and three dimensions, Lagrange's equations with simple applications, oscillation about equilibrium positions.

Texts: Lamb, Statics, and Lamb, Dynamics (C.U.P.); Synge and Griffith, Principles of Mechanics (McGraw-Hill).

32. SOLID ANALYTIC GEOMETRY. (Full Course)

Three hours ..... Professor ————

Three dimensional coordinate systems, transformation of coordinates; points, lines and planes; elementary, intrinsic properties of quadric surfaces; generating lines and parametric representation; reduction of the general equation of the second degree; curvature and torsion of twisted curves; curvature of surfaces. Generalized homogeneous point, line and plane coordinates; elements of projective geometry.

NOTE: The first term of this course, designated as 32a, will be taken as a separate half course by students in Honours mathematics and physics.

Texts: C. Smith's Solid Geometry; R. T. J. Bell, Geometry of Three Dimensions.

33. DIFFERENTIAL EQUATIONS AND ADVANCED CALCULUS. (Full Course)

Three hours ..... Professor Gillson.

Solvable types of ordinary differential equations, exact differentials, linear differential equations, singular solutions, introduction to solution by series, Fourier series, introduction to partial differential equations, systems of ordinary equations, partial differentiation, differentials, transformation of variables, Jacobians, mean value theorems with applications, elliptic integrals, indeterminate forms, line integrals, Green's and Stokes' theorems, vector analysis.

Texts: Lamb, Infinitesimal Calculus (C.U.P.); Franklin, Methods of Advanced Calculus (McGraw-Hill); Piaggio, Differential Equations (Bell & Sons).

34b. INFINITE SERIES AND INTEGRALS. (Half Course)

Second term: Three hours ..... Professor Rosenthall.

Sequences and limits, algebra of infinite series, tests for convergence, uniform covergence, power-series, operations with infinite integrals, gamma and beta functions, interchange of limits.

Texts: MacRobert and Arthur, Advanced Trigonometry, Part III (Methuen); Hyslop, Infinite Series (Oliver and Boyd).

36. PLANE AND SOLID ANALYTIC GEOMETRY AND ALGEBRA. (Full Course)
Three hours.....Professor————

The conic sections and other loci, polar co-ordinates, parametric equations. The plane and straight line in space, quadratic surfaces. Elementary theory of equations and determinants.

Text: Young, Fort and Morgan, Analytic Geometry (Houghton Mifflin).

37. ALGEBRA AND DIFFERENTIAL EQUATIONS (Eng. 201). (Full Course)
Two hours.....Professors MacLean and Wallace.

For a fuller description, see the Announcement of the Faculty of Engineering.

Text: Reddick, Differential Equations (Wiley).

Prerequisite: Mathematics 24 and 36 or Mathematics 198 (Engineering).

38. MATHEMATICS OF ELEMENTARY STATISTICS. (Full Course)
Three hours.....Professor Tate.

Frequency distributions, averages, moments, measures of dispersion, the normal curve, curve fitting, correlation theory, interpolation and construction of tables.

This course is intended to give students in biochemistry, chemistry, sociology, psychology, etc., the mathematical basis of elementary, statistical methods.

Prerequisite: Mathematics 24 or 25.

Text: C. H. Richardson, Introduction to Statistical Analysis (Harcourt Brace and Co.).

FOURTH YEAR:

41. MATHEMATICAL PHYSICS (Physics 41). (Full Course)
Three hours.....Professors Gillson and Foster.

A survey of methods and ideas common to all branches of Mathematical Physics. Twelve lectures on calculations arising in spectroscopy and nuclear physics will be given by Professor Foster.

The first term of this course, designated as 41a, will be taken as a separate course by students in Honours Mathematics.

Texts: Houston, Introduction to Mathematical Physics (Longmans); Page, Introduction to Theoretical Physics (Van Nostrand); von Karman and Biot, Mathematical Methods in Engineering (McGraw-Hill).

42a. ALGEBRA. (Half Course)
First term: Three hours.....Professor Solin.

Determinants, matrices, linear transformations, characteristic values, probability.

Text: Ferrar, Algebra (O.U.P.); Turnbull and Aitken, Canonical Matrices.

42b. ALGEBRA. (Half Course)
Second term: Three hours. . . . . Professor Solin.
Finite differences, difference equations, continued fractions, inequalities, theory of investment.
Text: Barnard and Child, Higher Algebra.

43b. FUNCTIONS OF A REAL VARIABLE. (Half Course)
Three hours . . . . . Professor Williams.
Postulational treatment of the real number system, properties of point sets, continuous and discontinuous functions, derivatives and differentials, Riemann integration, theory of Fourier series.
Texts: G. H. Hardy, Pure Mathematics (C.U.P.); Carslaw, Fourier Series and Integrals (Macmillan & Co.).

44. FUNCTIONS OF A COMPLEX VARIABLE. (Full Course)
Three hours . . . . . Professor ————
Structure and analysis of the general bilinear transformation; conformal mapping; power series and their analytic continuation; Cauchy integral theorems and consequences; general theorems on uniform functions; theorems of Mittag-Leffler and Weierstrass; elliptic functions.
Texts: E. T. Copson, Functions of a Complex Variable; MacRobert, Functions of a Complex Variable.

45b. PRACTICAL NUMERICAL ANALYSIS. (Half Course)
Second term: Three hours . . . . . Professor Ross.
Mechanical aids to calculation, interpolation, graphical integration and differentiation, smoothing of data and curve fitting, numerical solution of algebraic, differential, and integral equations, numerical solution of simultaneous linear equations, evaluation of determinants, characteristic roots, harmonic analysis.

46a. FLUID DYNAMICS. (Half Course)
First term: Three hours . . . . . Professor Rosenthall.
Text: S. L. Green, Hydro- and Aero-Dynamics (Pitman).

46b. MATHEMATICAL THEORY OF ELECTRICITY AND MAGNETISM. (Half Course)
Second term: Three hours . . . . . Professor Rosenthall.
Text: Ramsey, Electricity and Magnetism (C.U.P.); Reference, Smythe, Static and Dynamic Electricity (McGraw-Hill).

47. HIGHER MATHEMATICS FOR CHEMISTS. (For chemists and other qualified students.)
Two hours . . . . . Professor Gillson.

Selected topics in algebra, advanced calculus and mechanics, designed to prepare students for the study of quantum chemistry.

Prerequisites: Mathematics 24 and 37.

48. MATHEMATICS OF LIFE INSURANCE. (Full Course)
Three hours . . . . . Professor Tate.

Elements of finite differences, expectations of life, statistical applications of the mortality table, life annuities and assurances, reserves, conversion tables and return of premiums.

Prerequisites: Mathematics 23b and 24.

Texts: Menge and Glover, Mathematics of Life Insurance (Macmillan); Institute of Actuaries Text-Book (Layton); C. K. Knight, Advanced Life Insurance (Wiley); Dowling, Mathematics of Life Insurance (McGraw-Hill).

SUMMARY OF ORGANIZED COURSES OF STUDY

The following courses of study are designed to give students the maximum opportunity of entering various fields in which mathematical training is fundamental. Attention is particularly called to opportunities in: Research in Pure and Applied Mathematics; teaching in Universities and High Schools; applications to engineering, the physical and biological sciences; statistical work in industry and government departments; actuarial work in insurance companies.

(*a*) CONTINUATION COURSES FOR THE GENERAL DEGREE.

These are Courses 24 *or* 25, 36, 37, 38. (SEE PAGES 722, 735.)

(*b*) GENERAL DEGREE WITH SPECIAL DISTINCTION IN MATHEMATICS.

The prescribed courses are:

Second Year: 25, 26a, 27b.

Third Year: 32a, 33, and either 32b or 34b or Physics 24.

Fourth Year: Any two Mathematics Honours courses of the Third and Fourth Years for which prerequisite requirements are satisfied.

This course of study may be combined with any combination of other subjects which satisfy the normal requirements for the General Degree.

(*c*) HALF-HONOURS IN MATHEMATICS.

The prescribed Mathematics Courses are those laid down in (*b*) above. In order to obtain Half-Honours in Mathematics, this course of study must be combined with Half-Honours in some other subject, e.g. Philosophy. (SEE PAGE 731.)

(*d*) Honours Course in Economics and Mathematics.

Second Year: Two approved full courses in Economics together with Mathematics 25, 26a, 27b, and one elective course in any approved subject.

Third Year: Two approved full courses in Economics together with Mathematics 32a, 33, 34b.

Fourth Year: Two approved full courses in Economics together with Mathematics 42a, 42b and any other approved elective course which may be, if desired, a second Mathematics course selected with the approval of the Chairman of the Mathematics Department.

(*e*) Honours Course in Mathematics.

Prerequisite: High standing in first year Mathematics.

Second Year: 25, 26a, 27b, 28a, and Physics 24.

Third Year: 31a, 32, 33, 34b.

Fourth Year: 41a, 42, 43b, 44.

Two other courses in the second year and one in each of the third and fourth years are to be selected with the approval of the Chairman of the Mathematics Department.

(*f*) Honours Course in Pure and Applied Mathematics.

Prerequisite: High standing in first year Mathematics and Physics.

Second Year: The same as (*g*) below with a fifth course obligatory.

Third Year: 31a, 31b, 32a, 33, 34b. Physics 32, 34 (without laboratory).

Fourth Year: 41, 42, 44, 45b, 46. One afternoon a week of laboratory work in advanced physics.

(*g*) Honours Course in Mathematics and Physics.

Prerequisite: High standing in First Year Mathematics and Physics.

Second Year: Mathematics 25, 26a, 27b, 28a.
Physics 23, 24b, 25.
One other approved course may be added as an extra.

Third Year: Mathematics 31, 32a, 33, 34b.
Physics 32, 33, 34, 35a.

Fourth Year: Mathematics 41, 42a, 43b or 45b, 44.
Physics 42, 43, 44, 45 and Geography 44 (Meteorology).

It is recommended that a reading knowledge of Scientific French and German be acquired before the end of the Fourth Year, in courses (*e*), (*f*), and (*g*) above.

(*h*) Engineering Physics.

This course, leading to a B.Eng. degree is fully described in the Announcement of the Faculty of Engineering.

(*i*) Courses in the Faculty of Engineering.

These are described in detail in the Announcement of the Faculty of Engineering.

Medal

Attention is drawn to the Ann Molson Gold Medal awarded annually.

Graduate Courses in Pure and Applied Mathematics

Organized courses of study are available for graduate work leading to a Master's degree. Details are available in the Announcement of the Faculty of Graduate Studies and Research.

MUSIC

DEAN DOUGLAS CLARKE AND STAFF

The courses in Music are open to those who have the qualifications for the regular courses of Music given in the Faculty of Music. The following courses may be taken as electives in the Faculty of Arts and Science. The first course of Music is for those who have offered Music as a Matriculation subject.

1. FIRST COURSE. (Full Course)

(*a*) *Harmony.*

One hour.

The work covered is that required for the Intermediate Grade Theoretical Examination of the Local Centre Examinations. (See the Announcement of the Faculty of Music.)

Texts: MacPherson, Rudiments of Music; Kitson, Elementary Harmony, Part I.

(b) *Form and Analysis.*

One hour.

Phrase. Sentence. Sequence. Cadence Accent. Rhythm. Time Melody. Modulation. Early Dance Forms. Suites—with special consideration of the Minuet and Trio.

Texts: MacPherson, Form in Music; MacPherson, Studies in Phrasing and Form; R. O. Morris, Structure of Music.

(c) *History* (outline).

One hour.

Texts: Stanford & Forsyth, A History of Music; Finney, A History of Music; Nef, A History of Music.

(d) *Aural Training.*

One hour.

Development of a mental appreciation of scale degrees; recognition of intervals and simple rhythms; quality of tone.

Text: Aural Training, B. C. Allchin (Novello).

2. Second Course. (Full Course)

(a) *Harmony.*

One hour.

The work covered is that required for the Senior Grade Theoretical Examination of the Local Centre Examinations. (See the Announcement of the Faculty of Music.)

Texts: MacPherson, Rudiments of Music, Practical Harmony; Kitson, Elementary Harmony, Part. II.

(b) *Form and Analysis.*

One hour.

Sonata form, Sonato rondo form, standard type of classical sonatas, quartets, symphonies. The overture.

Texts: In addition to books on Form recommended for First Year: Tovey, Essays in Musical Analysis; Tovey, A companion to Beethoven's Pianoforte Sonatas.

(c) *History* (1600-1900).

One hour.

Texts: Colles, Growth of Music; Fellowes, The English Madrigal. Scholes, Listeners' History of Music, Part III.

General reading: Parry-Williams, A Music Course; Hadow, Sonata Form; Finney, A History of Music; Parry, Evolution of the Art of Music; Lang, Music in Western Civilization.

(d) *Aural Training.*

One hour.

Detecting major and minor chords, diminished and augmented triads; Dominant 7ths. Dictation, with modulation to neighbouring keys. Sight reading in two and three parts. Chromatic intervals.

Text: Aural Training, B. C. Allchin.

3. Third Course. (Full Course)

(a) *Harmony and Counterpoint.*

One hour.

Harmony—Vocal in three and four parts, up to chords of major and minor ninth and secondary sevenths, including the use of suspensions and passing notes (harmonizing of melodies and figured and unfigured bass, the completing of a harmonic sentence from a given pattern).

Texts: Macpherson, Melody and Harmony; Buck, Unfigured Harmony.

Counterpoint—In two parts: up to, and including 5th Species.

Texts: Gladstone, Strict Counterpoint; Kitson, Counterpoint for Beginners.

(b) *Form and Analysis.*

One hour.

Origin, development of the Fugue. Analysis of some of the "48" and better known organ fugues. Comparison of fugues by various composers.

Texts: Gray, Bach's Forty-eight; Macpherson, Bach's Forty-eight (A Commentary); Prout, Fugue.

(c) *History* (earliest times up to 1600).

One hour.

Texts: Madeley Richardson, The Mediaeval Modes; Parry, The Art of Music; Dyson, The Progress of Music; Bacharach, The Musical Companion; Parry, Summary of Musical History; Walker, History of Music in England; Reese, Music in the Middle Ages; Sachs, The Rise of Music in the Ancient World, East and West; Boyd, Elizabethan Music and Music Criticism.

(d) *Chamber and Orchestral Music, Opera and Score Reading.*

One hour.

Chamber music and its development. Music for viols. The string quartet. Opera. History of the development of the orchestra. Haydn's orchestra. Beethoven's orchestra. Description of orchestral instruments. The symphony. (The gramophone will be used.)

Texts: Dunhill, Chamber Music; Dunhill, Mozart's String Quartets; Tovey, Essays in Analysis (Vol. 1); Dent, Opera; Terry, The Music of Bach; Dickenson, Mozart's last three symphonies (Pilgrim); Gordon Jacob, How to read a score.

4. Fourth Course. (Full Course)

(a) *Harmony.*

One hour.

Instrumental, in three and four parts. Figuration.

Text: Morris, Foundations of Practical Harmony and Counterpoint.

(b) *Counterpoint.*

One hour.

Strict (covering all species) up to three parts. Answers to fugue subjects. Fugal exposition in two parts.

Texts: Madeley Richardson, Fundamental Counterpoint; Higgs, Fugue; Prout, Fugue; Madeley Richardson, Helps to Fugue Writing.

(c) *History* (modern).

One hour.

Texts: Nef, An outline of the History of Music; Ewen, from Bach to Stravinsky; Bauer, Twentieth Century Music; McNaught, Modern Musicians; Dyson, The New Music; Lambert, Music Ho!; Copland, Our New Music.

(d) *Form and Analysis.*

One hour.

Analytical study of great works.

Texts: Various publications in the Musical Pilgrim Series, (Oxford University Press); Tovey, Essays in Musical Analysis; Vaughan Williams, National Music; Tovey, A Companion to Beethoven's Sonatas; Markham Lee, Brahms Orchestral Works; Harrison, Brahms and his Four Symphonies; Dyson, The New Music.

(e) *Orchestral and Chamber Music Repertoire* (with gramophone).

One hour.

Critical listening. Extended Chamber Music with solo instruments and advanced study of orchestral repertoire.

Texts: Forsyth, Orchestration; Tovey, Essays in Music Analysis, Vols. 1 to 5; Colles, The Chamber Music of Brahms (Pilgrim).

PHILOSOPHY

Professor . . . . . R. D. MACLENNAN
Visiting Professor . . . . . R. KLIBANSKY
Assistant Professors . . . . . C. CURRIE, T. G. HENDERSON
Sessional Lecturer . . . . . D. C. YALDEN-THOMSON

GENERAL COURSES

1. INTRODUCTION TO PHILOSOPHY. Second Year. (Full Course)

Two hours and a conference . . . . Professor Maclennan and Assistants.

An introduction to the chief problems of Philosophy in connection with their development in Greek and more especially modern times. A short study of Logic, deductive and inductive, will also be included. Preparatory reading in Dickinson, The Greek View of Life, William James, Selected Papers on Philosophy, and Bertrand Russell, Problems of Philosophy, will be found helpful.

Prescribed reading: Dialogues of Plato (Modern Library); Selections from Descartes, Berkeley and Hume (Scribner's Modern Students' Library); Stebbing, A Modern Elementary Logic (Methuen).

2. ETHICS. Second Year. (Full Course)

Three hours . . . . . Professor Maclennan.

The main types of ethical theory.

Reading: Plato's Republic (Golden Treasury); Butler's Fifteen Sermons (Matthews, Bohn Library, Bell); Aristotle, Ethics; Hobbes, Leviathan, and Mill, Utilitarianism (Everyman Library); Kant, Fundamental Principles of the Metaphysics of Morals (T. K. Abbot, Longmans); Leon, Ethics of Power.

HISTORICAL

3. HISTORY OF GREEK PHILOSOPHY. Third and Fourth Years. (Full Course)

Three hours . . . . . Professor Henderson.

Reading: Dialogues of Plato (Random House); The Basic Works of Aristotle (Random House).

Prerequisite: Philosophy 1, except for students in Honours courses in Greek.

4. HISTORY OF PHILOSOPHY FROM THE RENAISSANCE TO THE PRESENT DAY. (Full Course)

Two hours and a conference . . . . . Professor Currie.

Prerequisite: Philosophy 1.

Reading: Selections from Descartes, Spinoza, Locke, Berkeley, Hume, Hegel (Scribner's Modern Students' Library); Leibniz's Philosophical Writings (Everyman); Kant, Prolegomena to any future Metaphysic (Open Court); Bergson, Creative Evolution (Holt).

5. MEDIAEVAL PHILOSOPHY. (Full Course)

Three hours . . . . . Professor Klibansky.

Main problems of mediaeval philosophy in their development from St. Augustine to the Fifteenth Century, with special reference to Boethius, Scotus Eriugena, Anselm, Abailard, the School of Chartres, St. Thomas, Master Eckhart, Duns Scotus, William of Ockham, and Nicolas of Cues.

Reading: St. Augustine, Confessions (Loeb Library), and City of God (Everyman Library, London 1945); selections from Mediaeval Philosophers, vols. I-III (Modern Student's Library, Scribner's).
Prerequisite: Philosophy 1 and 3, or, with consent of lecturer.

SYSTEMATIC AND ADVANCED COURSES

6. MORAL AND POLITICAL PHILOSOPHY. (Full Course)

Three hours . . . . . Professors Klibansky and Maclennan.

Reading: Aristotle, Ethics and Politics; Plato's Writings on Political Philosophy; Kant, Perpetual Peace; Hegel, Philosophy of Right; M. Oakeshott, The Social and Political Doctrines of Contemporary Europe (Cambridge 1944).

7. PROBLEMS OF LOGIC AND METAPHYSICS. (Full Course)

Three hours . . . . . Professors Henderson and Klibansky.

An examination of fundamental problems of logic, theory of knowledge and metaphysics will be made on the basis of selected readings in the works of Mill, Bosanquet, Stebbing, Russell, Joachim, Santayana, Whitehead, and other contemporary authors.

Prerequisites: Philosophy 1 and 4.

8. SEMINAR ON THE PHILOSOPHY OF KANT. (Full Course)

Three hours . . . . . Professor Currie.

Reading: Kant, Critique of Pure Reason, Critique of Judgment.

Prerequisites: May be taken by students in good standing in Philosophy with the consent of the lecturer.

9. SEMINAR ON CONTEMPORARY PHILOSOPHY. (Full Course)

Three hours ..... The Staff.

Subject for 1947-48: The Philosophy of Kierkegaard, and Modern Philosophies of Existence.

HONOURS COURSES

Full Honours students will take the following courses:

Second Year: Philosophy 1.

Third Year: Philosophy 2, 3a and 3b, and 4.

Fourth Year: Philosophy 6, 7 and 8.

For any combined Honours Course, a total of five full courses including Philosophy 1. Such subjects as Mathematics, Literature, History or a social science are recommended for combined honours.

At the conclusion of the Fourth Year, there is a comprehensive examination on the total work done in the field of Philosophy, which will take the place of examinations in the courses of that year. For full Honours students the examination will consist of three papers; one in the history of philosophy, one in ethics, and one in systematic Philosophy (logic, epistemology, and metaphysics). Students pursuing a combined honours course will take two of the papers, the selection being made in accordance with the combined subject-matter of their course of study. The examination will presume a knowledge of the major classical works in each of these fields, some of which may not be dealt with in any lecture course or seminar.

PHILOSOPHY AS A CONTINUATION SUBJECT

Students interested in studying philosophy in conjunction with other subjects are advised to take their courses in Philosophy in the sequences indicated below in connection with the other studies:

1. Philosophy with one or more studies in the social sciences, e.g., economics, history, politics, psychology and sociology.
   Philosophy 1, Philosophy 2, Philosophy 3, Philosophy 5.

2. Philosophy with one or more studies in the natural sciences, e.g., biochemistry, botany, chemistry, genetics, physics, zoology.
   Philosophy 1, Philosophy 4 or 6.

3. Philosophy with studies in English or Foreign Literature.
   Philosophy 1, Philosophy 2, Philosophy 3, Philosophy 4.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

PHYSICS

Professors . . . . . A. Norman Shaw, J. S. Foster
Associate Professor . . . . . H. G. I. Watson
Assistant Professors . . . . . F. R. Terroux, J. S. Marshall, E. R. Pounder, ...
Lecturer . . . . . A. I. McPherson
Sessional Lecturers . . . . . A. Henrikson, M. L. de Angelis, D. G. Douglas, A. Morrison

FIRST YEAR COURSES*

11. General Course. (Full Course)

Three hours . . . . . Professor Pounder.

Laboratory (11L), Two hours. . . .Dr. McPherson and Demonstrators.

A general course covering the elementary portions of mechanics, sound, heat, magnetism, electricity, light and atomic physics. Simple applications of fundamental principles to well known phenomena are explained with the aid of demonstrations, laboratory work and numerical examples.

Texts: Mendenhall, Eve, Keys and Sutton, College Physics, (Heath & Co.); An Elementary College Course in Experimental Physics (Renouf Publishing Co.).

12. Outline of Physical Science. (Full Course)

(Open to B.A. and B.Com. students).

Three hours (laboratory, 10 periods only). . . . . Mr. Morrison.

An introductory course suitable for students taking the diploma in education, and also those interested in the influence of physical science upon other branches of learning and upon human welfare.

Reference book: Mendenhall, Eve, Keys and Sutton, College Physics (Heath).

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*These courses (11 or 12) may be taken in the second or third years by *B.A. Students* provided that their time-tables permit.

SECOND YEAR COURSES*

21. General Course (advanced). (Full Course)
Three hours; Laboratory (21L), two hours . . . . . Mr. Douglas.

A continuation course in general physics primarily for biological or pre-medical students. It covers in a more advanced way the fields indicated for Course 11, and also devotes special attention to those physical topics, applications and instruments which most frequently are needed in the domains of biophysics and biology.

Prerequisite: 11.

Texts: Duff, Text-book on Physics (Blakiston); Laboratory Manuscripts (mimeographed). *Reference books:* Daniel, Text-book on Medical Physics (Macmillan); Jones, Electricity and Magnetism (Lewis).

22. (*a*) Heat, (*b*) Light and Sound. (Eng. 311, 312.) (Full Course)
Three hours. Professor Marshall, Dr. McPherson, and Mr. Henrikson.
Laboratory (22L), two hours. . Professor Terroux and Demonstrators.

(*a*) Calorimetry, heat transfer, change of state, critical state, hygrometry, engines, elementary kinetic theory and thermodynamics.

(*b*) Illumination, reflection, refraction, interference, nature and velocity of light, optical apparatus, vision, spectroscopy, polarimetry. Nature and velocity of sound, pitch, loudness, quality, wave analysis, interference, resonance, vibrations, instruments, hearing. Emphasis on demonstrations, applications and problems.

Prerequisite: 11.

(If desired, the course on heat given in the first term or the course on Light and Sound given in the second term may each be taken as a half course.)

Texts: Duncan and Starling, Heat, Light and Sound (Macmillan); Heat, Sound and Light Laboratory Manual (Renouf Publishing Co.).

Reference book: Mendenhall, Eves, Keys and Sutton, College Physics (Heath).

23. Electricity and Magnetism. (Eng. 315, 316.) (Full Course)
Two hours and one voluntary tutorial . . . . . Professor Watson.
Laboratory (23L), three hours . . . . . Professors Watson, Pounder, Mr. de Angelis and Demonstrators.

The fundamentals of magnetism, electrostatics, current electricity,

*Courses 21, 22, 23, 24 or 25 may be taken by B.A. or B.Sc. students (general course) in their third year provided that their time-tables permit. Courses 23, 24 or 25 may be taken by *B.A. students* in their fourth year provided that their time-tables permit.

electromagnetic induction, electrodynamics, theory of simple circuits, elementary electronics. Demonstrations, applications and numerical examples are emphasized. The laboratory course is essential and complementary to the lectures, illustrating main principles and providing a thorough introduction to the theory and use of common electric apparatus.

Prerequisite: 11. Mathematics 24 or 25 to be taken concurrently.

Texts: Electricity and Magnetism notes (mimeographed) and Electricity and Magnetism Laboratory Manual (mimeographed). *Reference books:* Signal Training Manual, Vol. II, Part I, Electricity and Magnetism (H.M. Stationery Office); Page, Lessons in Electricity (Macmillan); Brown, Electricity and Magnetism (Holt); Zeleny, Elements of Electricity (McGraw-Hill); Starling, Electricity and Magnetism (Longmans Green).

24b. DYNAMICS. (Half Course)

Second term: Three hours . . . . . Professor Terroux.

Kinematics, vectors, motion under gravity, laws of motion, applications, impulse, work and energy in linear motion and rotation, projectiles, collision of elastic bodies, normal accelerations, simple harmonic motion, wave motion, pendulum, moments of inertia. Students are required to work a large number of problems. (Elementary applications of calculus are included.)

Prerequisite: 11.

Text: Loney, Statistics and Dynamics (C.U.P.).

25. STATICS AND HYDROSTATICS. (Half Course)

One hour (throughout the session) . . . . . Dr. McPherson.

Composition and resolution of forces, funicular polygon, conditions of equilibrium of a rigid body acted on by forces in one plan, centre of gravity, simple machines, friction, elastic strings, virtual work. Fluid pressure, determination of specific gravity, equilibrium of floating bodies. Solutions of numerous graphical and numerical problems required.

Prerequisite: 11.

Text: Loney, Statics and Dynamics (C.U.P.).

26. THE PHYSICS OF PHYSIOTHERAPY. (Half Course)

One hour (throughout the session) . . . . . Dr. McPherson.

A special course for physiotherapy students, dealing particularly with the physics of the theory and use of physiotherapeutic apparatus.

Prerequisite: 11.

Reference book: Kovacs, Electrotherapy and Light Therapy. 5th edition (Lea & Febiger).

THIRD YEAR COURSES*

31. STATICS, DYNAMICS OF A PARTICLE AND RIGID DYNAMICS. (Mathematics 31.) (Full Course)

(*a*) Dynamics of a particle in one and two dimensions, motion of pair of particles, introduction to dynamics of rigid bodies, mass systems.

Prerequisite: 24, 25 and Mathematics 25.

First term: Three hours . . . . . Professor Terroux.

(*b*) Central orbits, elements of rigid dynamics in two and three dimensions, Lagrange's equations with simple applications, oscillations about equilibrium positions.

Second term: Three hours . . . . . Professor Gillson.

Texts: Lamb's Statics and Lamb's Dynamics (C.U.P.).

32. PROPERTIES OF MATTER. (Half Course)

One hour; Laboratory (32L), three hours. . . . . Professor Terroux.

In both lectures and laboratory emphasis is placed upon the following subjects: the constant of universal gravitation, acceleration due to gravity, determination of moments of inertia, bifilar suspension, compound and ballistic pendulums, elasticity and the determination of elastic moduli, viscosity of liquids and gases, surface tension.

Prerequisite: 11, 24, 25.

Texts: Newman and Searle, General Properties of Matter (E. Benn Co.). *Reference book:* Champion and Davy, Properties of Matter (Blackie).

33. ELECTRICAL MEASUREMENTS. (Full Course)

Two hours; Laboratory (33L), four hours. . . . . Professor Watson.

D-C instruments and measurements, complete galvanometer theory, instrument calibration; A-C circuit theory, operational methods, applications; measurements at power, audio, and radio frequencies; measurements with Lecher wires; electronic devices, theory of circuits; elementary radio engineering; construction and testing of simple electrical devices; absolute measurements.

Prerequisite: 23 and Mathematics 25.

Reference books: Laws, Electrical Measurements (McGraw-Hill); Hague, Alternating Current Bridge Methods (Pitman); Campbell & Childs, The Measurement of Inductance, Capacitance and Frequency (Macmillan); Reich, Theory and Application of Electron Tubes (McGraw-Hill); Terman, Radio Engineers' Handbook (McGraw-Hill).

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*Courses 31 to 35 may be taken by qualified general course students in the fourth year, if time-table permits.

34. Advanced Heat. (Full Course)

Two hours; Laboratory* (34L) . . . . . Professor Shaw.

Precision thermometry (for low, intermediate and high temperatures), calorimetry, measurement of fundamental thermal variables, measurement and theory of transfer of heat (by conduction, convection and radiation), change of state, equations of state, elements of kinetic theory, physical basis and mathematics of thermodynamics, thermal equilibrium of systems, engineering applications.

Prerequisite: 22a and Mathematics 25.

Text: Roberts, Heat and Thermodynamics (Blackie).

Reference book: Zemansky, Heat and Thermodynamics (McGraw-Hill).

35a. Electron Physics. (Eng. 318.) (Half Course)

First term: Two hours . . . . . Professor ————

An introduction to the fundamentals of electronics, with emphasis on practical applications. Motion of ions and electrons in electric and magnetic fields, charge and mass of electron, thermionic emission, photo-electricity, electron optics, atomic structure, electron conduction in metals. Theory of apparatus emphasized (e.g., oscillographs photo-cells, magnetrons, electron microscopes, etc.).

Prerequisite: 23.

Reference books: Millman and Seely, Electronics (McGraw-Hill); Crowther, Ions, Electrons, and Ionizing Radiations (Arnold); Applied Electronics, by E. E. Staff, M.I.T. (Wiley).

FOURTH YEAR COURSES

41. Mathematical Physics. (Mathematics 41.) (Full Course)

Three hours . . . . . Professors Gillson and Foster.

Selected topics in potential theory, hydrodynamics, conduction of heat, acoustics, elasticity, electromagnetic theory. Twelve lectures on topics arising in spectroscopy and nuclear physics will be given by Professor Foster.

Prerequisite: 31 and Mathematics 33.

Reference books: Houston, Introduction to Mathematical Physics (Longmans); Page, Introduction to Theoretical Physics (Van Nostrand); von Karman and Biot, Mathematical Methods in Engineering (McGraw-Hill); Margenau and Murphy, The Mathematics of Physics and Chemistry (McGraw-Hill).

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*34L is combined with 32L and 33L.

The Department of Mining and Metallurgy arranges for students to do additional practical tests in the Metallurgical Laboratory.

42. ELECTROMAGNETIC THEORY. (Half Course)
One hour (throughout the session) . . . . . Professor Watson.

Vector treatment of electro- and magneto-statics; vector calculus; Maxwell's equations; boundary conditions; Poynting vector; electric waves; reflection and refraction of plane waves; propagation of waves in metals and dispersive media; wave guides (parallel plane, rectangular and circular) without and with attenuation; measurement technique; radiation from a dipole and from an antenna.

Prerequisite: 23 and Mathematics 33.

Reference books: Sarbacher and Edson, Hyper and Ultra-High Frequency Engineering (Wiley); Harnwell, Principles of Electricity and Electromagnetism (McGraw-Hill); Pierce, Electric Oscillations and Electric Waves (McGraw-Hill); Skilling, Fundamentals of Electric Waves (Wiley).

43. ATOMIC PHYSICS. (Full Course)
Two hours; Laboratory (43L), Three hours.
Professors Shaw and Marshall.

Review of classic experiments of atomic physics, determination of physical properties and constants of atoms, ions and electrons, mass-spectrograph, elements of thermionics and photo-electricity, X-ray analysis, cosmic rays, atomic structure, radiation absorption and emission, advent of quantum theory and wave-mechanics, philosophical problems in modern physics.

Prerequisite: 35; Physics 44b to be taken concurrently.

Text: Crowther, Ions, Electrons and Ionizing Radiations (E. Arnold). *Reference books:* Richtmeyer, Introduction to Modern Physics (McGraw-Hill); Strong, Procedures in Experimental Physics (Prentice-Hall); Brown, Foundations of Modern Physics (Wiley); Hull, Survey of Modern Physics (Macmillan).

44b. RADIOACTIVITY. (Half Course)
Second term: Two hours; Laboratory (44L), held with 43L second term . . . . . Professor Terroux.

The phenomena of radioactive disintegration and the laws of transformations of successive products. The nature and properties of the radiations, methods of detection and of measurement. Mechanisms of absorption and scattering. Neutrons, positrons and the constitution of nuclei. Methods of producing artificial disintegrations and their products. Introduction to nuclear physics.

Prerequisite: 35.

Reference books: Rutherford, Chadwick and Ellis, Radiations from Radioactive Substances (C.U.P.); Hevesy and Paneth, A Manual of Radioactivity (C.U.P.).

45. Advanced Light. (Full Course)
Two hours; Laboratory (45L), three hours . . . . . Dr. MacPherson.

The essentials of geometrical and physical optics with advanced laboratory work. Electromagnetic theory, interference, diffraction, polarization, simple spectrum analysis, determination of fine structure of spectral lines, Zeeman effect, and the theory and use of optical apparatus (e.g., glass and quartz spectrographs, Lummer plates, interferometers and polarimeters).

Prerequisite: 11, Mathematics 23.

Text: Houston, Light (Longmans). *Reference books:* Robertson, Physical Optics (Van Nostrand); Wood, Physical Optics (Macmillan); Drude, Optics (Longmans).

46a. Astrophysics. (Half Course)
First term: Two hours; Laboratory (46L) two hours . . . . . .

Elementary review of the determination of the positions, sizes, motions and temperatures of the stars. Spectroscopy as applied to the problems of astrophysics. Practical measurements and analysis of typical stellar spectrograms.

Prerequisite: 11.

Reference books: Russel, Dugan and Stewart, Vols. I, II, Astronomy (Ginn); Aitken, The Binary Stars (Univ. of California Pub.).

(Not offered in 1947-48.)

47. Applied Geophysics. (Engineering 320.) (Half Course)
Second term: Two hours . . . . . Professor Watson.

An introduction to geophysical methods of prospecting and of investigating subsurface structures. The theories, the uses and the limitations of various magnetic, electrical, gravitational and seismic methods are explained and compared. The practical operation of the instruments is reviewed, and actual field results are obtained and analysed. When possible, students will be given some practical experience in the field.

Prerequisite: 23.

Text: Eve and Keys, Applied Geophysics, 2nd edition (Cambridge Univ. Press). *Reference book:* Heiland, Geophysical Exploration (Prentice-Hall).

Honours Course in Mathematics and Physics

Prerequisite: High standing in first year Mathematics, Physics 11 or 21 or 22. First Year students intending to take this Honours course are advised to take Physics 22 and Mathematics 13, if their time table permits; in this case they should also attend that part of Physics 11 which deals with electricity and magnetism.

Second Year: Mathematics 25, 26a, 27b, 28a; Physics 23, 24b, 25; (Chemistry or English or German recommended as an extra subject).

Third Year: Mathematics 32a, 33, 34b; Physics 31, 32, 33, 34, 35a.

Fourth Year: Mathematics (41)*, 42a, 44, and 43b or 45b; Physics 41, 42, 43, 44, 45.

Third and Fourth Year Honours students are advised to attend the Physical Society and colloquia.

It is recommended that a reading knowledge of scientific French and German should be obtained before the end of the Fourth Year.

OPTIONS IN HONOURS COURSE

Subject to the approval of the Chairmen of the Departments of Physics, Mathematics and Electrical Engineering, Honours students in Mathematics and Physics who desire some training in Engineering may substitute Electrical Engineering courses 113 and 114 for courses 32 and 33 in the third year; these two courses would then be taken in their fourth year instead of one full or two half Mathematics courses. The summary of the courses for students taking this option would then be as follows:

Third Year: Mathematics 32a, 33, 34b; Physics 31, 34, 35; Electrical Engineering 113, 114.

Fourth Year: Mathematics (41)*, 44; Physics 32, 33, 41, 42, 43, 44, 45.

A student taking this option is eligible to receive the B.Sc. degree with Honours in Mathematics and Physics, and in a fifth year he may proceed towards an M.Sc. degree by taking further courses in Physics and Electrical Engineering.

NOTE: The above option corresponds to the course formerly known as the Engineering Physics division of the Honours Course in Mathematics and Physics. See the Announcement of the Faculty of Engineering for data concerning the course in Engineering Physics now offered to students in the Engineering Faculty.

Students intending to proceed later with advanced or graduate training in Meteorology, may, with the approval of the departments concerned, substitute course 44, Meteorology, in the Department of Geography (see Page 777) instead of one full or two half courses in fourth year Mathematics. (Unless otherwise arranged, and also approved by the Mathematics Department, Mathematics 44 would be retained as in the Engineering option given above, but Geography 44 would be given in the fourth year and there would be no change in the third year).

Subject to the approval of the departments concerned, other alternative options may be substituted, as in the case above, for one of the Mathematics courses.

GRADUATE COURSES

See the Announcement of the Faculty of Graduate Studies and Research.

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*Mathematics 41 = Physics 41.

PHYSIOLOGY

Professor . . . . . H. E. Hoff
Professor, Post Retirement . . . . . B. P. Babkin
Associate Professor . . . . . N. Giblin
Assistant Professors . . . . . S. Dworkin, Ronald Grant
Lecturers . . . . . K. G. Terroux, P. Kellaway

21. (1b) Elementary Human Physiology. (Full Course)

Two lectures and three hours laboratory during part of the Session, three lectures during the remainder of the Session. For Second and Third Year Arts and Science students, third year students in Physical Education and students in the School for Graduate Nurses and the School of Physiotherapy.

Prerequisites: Chemistry 11, Physics 11, Zoology 11b.

Text: Carlson and Johnson, Machinery of the Body.

31a. (1a) Physiology of the Nervous System. (Half Course)

First term: Two hours; three hours laboratory.

Prerequisites: Physiology 21, Physics 21.

31b. (4b) Physiology of Sensation. (Half Course)

Second term: Two hours; three hours laboratory.

Prerequisite: Physiology 31a.

32a. (2b) Advanced Mammalian Physiology. (Half Course)

First term: Two hours; three hours laboratory.

Advanced treatment of selected aspects of mammalian Physiology.

Prerequisite: Physiology 21.

32b. (Part of 3) Comparative Physiology. (Half Course)

Second term: Two hours; three hours laboratory.

Prerequisites: Physiology 21; Zoology 24 *or* 25 should be taken concurrently if not already taken.

Courses 31a, 31b will be offered in 1947-48, but not in 1948-49.

Courses 32a, 32b will be offered in 1948-49, but not in 1947-48.

Students who intend to take the advanced courses in Physiology (31 and 32) should be well grounded in both Chemistry and Physics. Chemistry 22, 24, and Physics 21 should be regarded as minimum preparation.

Honours Course in Physiology

For general regulations concerning the Honours B.Sc. degree see pages 727 and 736.

Students who intend to apply for admission to the Honours course in Physiology should follow the recommendations for Honours in Biological subjects during their first and second year (see page 736). An adequate background in the cognate sciences, Chemistry, Physics and Zoology is essential. In Physics the detailed courses 22 and 23 are to be preferred to the general course 21.

The course recommended will depend to a large extent on the stage at which a student decides to apply for admission to Physiology as an Honours student, as well as on the talents and preferences of the individual student. The following schedule should be regarded as a typical course, not as an absolute requirement.

First Year

As for the general B.Sc. course with preferably Zoology 11a, 11b as the elective course.

Second Year

Chemistry 22, 24.

Physics 21 *or* 22.

Zoology 21 (substitute Zoology 11a if not already taken plus Botany 1b).

Physiology 21.

Third Year

Biochemistry 1.

Physics 23.

Mathematics 24.

Zoology 24 *or* 25 *or* Zoology 22a plus 31b (substitute Zoology 21 if not already taken).

Physiology 31a, b, *or* 32a, b.

Fourth Year

Biochemistry 2 *or* 3 *or* 4a and 4b.

Physics 35a plus 44b.

Chemistry 23a *or* 23b *or* 32.

Physiology 31a, b, *or* 32a, b.

German 3 *or* 5 (students with adequate records are advised to take German 3 as an extra subject in second or third year).

PSYCHOLOGY

Professors . . . . . R. B. MacLeod, C. E. Kellogg, D. O. Hebb.
Associate Professor . . . . . N. W. Morton*
Assistant Professors . . . . . F. S. Alexander, R. B. Malmo
Lecturer . . . . . M. G. de Jersey*
Sessional Lecturer . . . . . E. B. Willis
Special Lecturer in Industrial Psychology E. C. Webster

21. (1) Introduction to Psychology. Second Year. (Full Course)
Three hours and one bi-weekly conference.

Prerequisite to all further courses in Psychology except Course 22.

A. (for B.A. students)

B. (for B.Sc. students)

C. (for B.Com. students)

D. (Dawson College)

Orientation in the field of psychology; biological basis of behaviour; motivation; personality; social attitudes; perception; memory and imagination; learning; intelligence; reasoning; applications of psychology.

22. (14) Psychological Statistics. Second or Third Year. (Full Course)
Three hours . . . . . Professor————

Prerequisite: Mathematics 11a, 12b.

Tabular and graphic representation of psychological data; functions of the normal probability curve; measures of central tendency; dispersion, reliability and simple correlation; introduction to partial and mutiple correlation and to the principles of experimental design.

31. (3) Experimental Psychology. Third or Fourth Year.
One hour; four hours laboratory. . . . . Professor————

A. a. Sensation and perception. (Half Course)

B. b. Learning, memory, imagination, thinking. (Half Course)

C. Motivation, action, feeling, emotion. (Half Course)
(Not given in 1947-48.)

*On leave of absence.

32. (2) General Psychology. Third or Fourth Year. (Full Course)

Three hours . . . . . Professor Kellogg.

A general survey covering history of psychology, the evolution of mind, individual development, general laws of behaviour and experience, individual differences, and an introduction to social psychology and psychotechnics.

Principal references: Thomson, Introduction to Science; Brennan, History of Psychology; McDougall, Outline of Psychology; Maier and Schneirla, Principles of Animal Psychology; Goodenough, Developmental Psychology; Cole, General Psychology; Moore, Cognitive Psychology, and Dynamic Psychology; Stern, General Psychology; Anastasi, Differential Psychology.

33. (6) Growth and Development. Third or Fourth Year. (Full Course)

Two hours and one conference . . . . . Professor Alexander.

Survey of the psychology of infancy, childhood, and adolescence, emphasizing the continuity and patterning of human development; parent-child relations; mental hygiene in childhood and adolescence.

Texts: Hurlock, Child Development; Barker, Kounin and Wright, Child Behaviour and Development; Nat. Soc. for the Study of Education, 43 Yearbook, Part 1; Zachery, Emotion and Conduct in Adolescence.

34. The Dynamics of Behaviour and Adjustment. (Full Course)

Third or Fourth Year.

Three hours . . . . . Professor Kellogg.

Instinct, need, drive, conflict and resolution, ego organization; personality organization, adjustment and maladjustment; principles of mental hygiene; orientation in the field of the abnormal; material drawn from animal, experimental human, and clinical psychology.

35. (9) Educational Psychology. Third or Fourth Year. (Full Course)

Three hours . . . . . Mrs. Willis.

Designed for students of education in the fifth year diploma course.

Not credited towards the Honours degree in Psychology.

Texts: Gates, Jersild, McConnell & Challman, Educational Psychology.

36a. (12a) Human Relations in Business and Industry.
Third or Fourth Year. (Half Course)
First term: Three hours . . . . . Professor Webster.

Labour management relations; morale in industry; advertising and market research.

Not credited towards the Honours degree in Psychology.

41a. (Part of 5) Comparative Psychology.
Third or Fourth Year. (Half Course)
First term: Three hours . . . . . Professor Hebb.

Comparative study of the behaviour of representative species from the protozoa to man; an intensive study of the learning process in lower mammals and primates.

Principal references: Warden, Jenkins and Warner, Introduction to Comparative Psychology; Maier and Schneirla, Principles of Animal Psychology; Moss (ed.), Comparative Psychology; Yerkes & Yerkes, The Great Apes; Hooton, Up from the Ape.

41b. (4a) Elementary Physiological Psychology.
Third or Fourth Year. (Half Course)
Second term: Three hours . . . . . Professor Hebb.

An introduction to the study of the physiological and neurological correlates of human experience and behaviour.

Texts: Herrick, The Thinking Machine; Morgan, Physiological Psychology.

42. Social Psychology. Fourth Year. (Full Course)
Three hours . . . . . Professor ————————

The place of psychology in the social sciences; nature and development of socialization; communication; social attitudes and their measurement; personality and cultural pattern; psychological group membership; leadership; propaganda; psychological aspects of racial, religious, occupational and political group membership; psychological factors in social conflict.

43. Modern Psychology in Historical Perspective.
Fourth Year and Graduate. (Full Course)
Three hours . . . . . Professor MacLeod.

Persistent problems of psychology studied from the point of view of their history, of their relation to philosophy and the sciences, and of recent experimental and theoretical developments.

44a. or b. Advanced Experimental Psychology.
Fourth Year and Graduate. (Half Course)
Three hours in one term.

Supervised investigation of a special field. Open to fourth year Honours students approved by the Department.

50. Special Problems Seminar. Fourth Year and Graduate.
Professor MacLeod.

Bi-weekly meeting for discussion of reading outside the limits of the regular courses. Restricted to fourth year Honours students and students qualifying for admission to graduate work. No course credit.

Additional Courses

Open to qualified Fourth Year and Graduate students. Not more than the equivalent of one full course in this category will be credited towards the Honours degree.

51a. Theory, Techniques and Interpretation of Mental Measurements. Fourth Year and Graduate. (Half Course)
First term: Three hours . . . . . Professor . . . . . .

Prerequisite: Psychology 22 or equivalent.

Presents the theoretical background necessary for the intelligent use of mental measurements; standardization of tests, item analysis, age and point scaling, reliability and validity of tests, use of such indices as mental age, I.Q., comparable or equivalent scores; evaluation of relative merits of different methods of test scaling.

52b. Measurement of Intelligence.
Fourth Year and Graduate. (Half Course)
One hour; four hours of practice testing . . . . . Professor . . . . . .

Prerequisite: Psychology 51a and permission of the instructor.

A training course in the application of individual tests of intelligence. Supervisal practise in the administration of the Binet-type scale and other such tests as the Wechsler-Bellevue and the Arthur Point Performance Scale. Includes verbal, non-verbal and performance tests.

53b. Measurement of Personality. (Half Course)
Second term: One hour; four hours of practice testing.
Professor Alexander.

Prerequisite: Psychology 51a and permission of the instructor.

Lectures on the theory of personality and on the techniques of personality evaluation; training in the administration and interpretation of projective techniques such as the Rorschach Test and the Thematic Apperception Test, and of other selected techniques.

54b. Personnel Selection and Vocational Guidance (Half Course)

Second term: Three hours . . . . . Professor Webster.

Prerequisite: Psychology 51a.

Mental Measurement as applied to problems of personnel selection and vocational guidance. Attention is concentrated upon: (*a*) use and interpretation of group tests; (*b*) development of rating procedures; (*c*) the personal interview.

55a. (8b) Psychology of Art Appreciation.

Third or Fourth Year. (Half Course)

First term: Three hours . . . . . Professor Kellogg.

Treats chiefly the fine arts, experimental aesthetics, the genesis of artistic abilities, recent trends in art, the enjoyment of art.

Text: Meier, Art in Human Affairs.

Honours Courses

Admission to Honours will normally take place at the beginning of the Third Year, and will be determined by the student's standing in Psychology and related subjects. Students preparing for an Honours degree are advised to follow the following program of courses:

B.A. Candidates

First Year: English, Classics, Mathematics, German, Physics.

Second Year: Psychology 21, Psychology 22, plus three courses from: Philosophy, Social Science, Biological Science, Physical Science, German.

Third Year: Psychology 31, Psychology 32, 33, *or* 34, plus two advanced courses from: Philosophy, Social Science, Biological Science, Physical Science.

Fourth Year: Three courses in Psychology, plus one advanced course in a related field (normally Philosophy, Social Science, *or* Biological Science).

B.Sc. Candidates

First Year: English, Mathematics, German, Physics, Chemistry.

Second Year: Psychology 21, Psychology 22, Zoology, Mathematics 24, plus one course from: Philosophy, Social Science, German.

Third Year: Psychology 31, Psychology 32, 33, *or* 34, Physiology, plus one advanced course from: Physical Science, Philosophy, Social Science.

Fourth Year: Three courses in Psychology, plus one advanced course in a related field (normally Biological Science).

Fourth Year Honours students are expected to participate in the Special Problems Seminar (Psychology 50) and are required to pass a comprehensive examination covering the field of Psychology.

Students contemplating Honours in Psychology and another subject must take Psychology 21 and the equivalent of four further full courses in Psychology approved by the two departments concerned.

General Courses

General students electing Psychology as a continuation subject must take Psychology 21 in the Second Year. For the Third and Fourth years the following sequences are recommended:

1. For students with a general interest in Psychology: any two courses from 32, 33, 34.
2. For students with an interest in the Natural Sciences: 31, 41a, 41b.
3. For students with an interest in Philosophy: 32, 43.
4. For students with an interest in the Social Sciences: 33 *or* 34, 42.
5. For students planning to enter the field of mental testing: 22, 33, 34, 51a, and 52b *or* 53b.

Graduate Work

For admission to graduate work in Psychology the minimum requirements are as follows: In Psychology, the equivalent of courses 21, 22, 31, and three further full courses approved by the department; in related subjects, the equivalent of one full year each of General Biology (including Physiology), Social Science, and Philosophy. Prospective graduate students are advised to obtain a reading knowledge of either French or German before beginning graduate studies.

ROMANCE LANGUAGES

French Section

Professor ..... J. E. L. Launay
Associate Professor ..... Mrs. L. Touren-Furness
Assistant Professors ..... L. d'Hauteserve; Mrs. P. L. Lariviere; P. Lengrand
Lecturers ..... Miss Madeleine Bodier; Miss Norah M. Lenoir
Resident Lecturer at R.V.C. .....

Spanish Section

Assistant Professor ..... Mrs. P. L. Henry
Lecturers ..... G. Stegen

FRENCH

Every lecture, even in the First Year, is given in French.

Both oral and written examinations are held on each year's work.

The oral examination (in both General and Honours courses) counts for 50 per cent.

A special section in the First Year is provided if necessary for the students who undertake the courses in French with very little knowledge of the spoken language, but it is not possible to acquire fluency without extra work. Students who are deficient in this respect, and especially those taking French as a continuation subject, are therefore strongly advised to take the French Summer School course either before or after their First Year.

General Courses

11a. and 11b. Advanced and Ordinary. First Year. (Full Course)

General Survey of Literature in the 18th and 19th centuries; French composition.

Three hours ..... Professors Furness, d'Hauteserve, Larivière and Lengrand, Miss Lenoir and Miss Bodier.

Texts: 1. Ordinary and Advanced sections:

Calvet, Petite histoire illustrée de la littérature française; Whitmarsh, Complete French Course (Longmans); Skinner, Quinze conteurs (Harcourt, Brace); Deval, Tovaritch (Holt).

2. Advanced sections only:

Romains, Knock (The Century Co.); Saint-Exupéry, Vol de nuit (Harper).

Additional reading for ordinary sections: Saint-Exupéry, Vol de nuit (Harper).

11c. SPECIAL SECTION FOR STUDENTS NOT CONTINUING WITH FRENCH BEYOND THE FIRST YEAR

Three hours . . . . . Professor Lengrand.
Miss Bodier and Miss Lenoir,

Texts: Gauclère, La France et sa culture (Macmillan); Whitmarsh, Complete French Course (Longmans); Skinner, Quinze conteurs; Deval, Tovaritch (Holt).

11e. SPECIAL COURSE FOR EX-SERVICE MEN

Three hours . . . . . Professor Lengrand and Miss Bodier.

Tests: Whitmarsh, Complete French Course (Longmans); Skinner, Quinze conteurs (Harcourt, Brace); Deval, Tovaritch (Holt).

21. GENERAL SURVEY OF FRENCH LITERATURE FROM THE MIDDLE AGES THROUGH THE 16TH AND 17TH CENTURIES; French Composition and Phonetics. Second Year. (Full Course)

Three hours . . . . . Professors Furness, Larivière and d'Hauteserve, Miss Lenoir and Miss Bodier.

Texts: Calvet, Petite histoire illustrée de la littérature française; Whitmarsh, Complete French Course (Longmans).

31. FRENCH LITERATURE OF THE 17TH CENTURY. Third Year. (Full Course)

Three hours . . . . . Professor Larivière.

Texts: Peyre & Grant, Seventeenth Century French Prose and Poetry (Heath); Seronde & Peyre, Nine Classic French Plays (Heath).

Readings: Corneille, Le Cid and Horace; Racine, Andromaque and Phèdre; Molière, L'Ecole des Femmes and Tartuffe; Pascal, Pensées; Bossuet, Oraison Funèbre d'Henriette d'Angleterre; Mme de Sévigné, Lettres choisies; La Fontaine, Fables choisies; Mme de La Fayette, La Princesse de Clèves.

32. FRENCH LITERATURE OF THE 18TH CENTURY. Third Year. (Full Course)

Three hours . . . . . Professor Lengrand and Miss Lenoir.

Texts: A. Schinz, Eighteenth Century French Readings (Holt); Marivaux, Le jeu de l'amour et du hasard (Heath); Prévost, Manon Lescaut (Crofts); Voltaire, Candide (Holt); Beaumarchais, Le Barbier de Séville (Holt).

Readings: Lesage, Gil Blas (Extracts); Montesquieu, Les Lettres persanes; Voltaire, Les Lettres philosophiques; Diderot, Le Neveu de Rameau; Beaumarchais, Le Mariage de Figaro.

41. Modern France—Geographical Outline—Political, Social, and Economic Aspects of French Life. Fourth Year. (Full Course)
(Open to Third Year students also.)
Three hours . . . . . Professor Launay.
Text: Morize and Rice, Introduction to France (Macmillan).

42. Literature and Social Ideas in the 19th century. Fourth Year.
(Open to Third Year students also.) (Full Course)
Three hours . . . . . Professor d'Hauteserve.
(Given in 1948-49)

43. French Literature of the 19th and 20th centuries. Fourth Year.
(Full Course)
Three hours . . . . . Professors Launay and Furness.
One hour weekly will be devoted to discussion of texts in small groups.
Texts: Searles, Seven French Plays (Holt); Galland & Cros, Nineteenth Century French Verse (Appleton Century); Balzac, Le Père Goriot (Nelson); P. Bourget, Le Disciple (Nelson).
Readings: Hernani, Le Gendre de monsieur Poirier, Les Corbeaux, Cyrano de Bergerac; Lyrical poetry of the nineteenth century; Le Père Goriot, Madame Bovary, Le Disciple.

Honours Courses

22. Introductory Honours Courses. Second Year. (Full Course)
Three hours . . . . . Professor Furness and Miss Bodier.
(*a*) The French comedy as illustrated by Molière, Beaumarchais and Musset.
(*b*) Free composition, written and oral on literary subjects.
(*c*) Practical phonetics.
With the consent of the Department this course may be taken by General students instead of French 21.

44a. History of the French Language. Third and Fourth Years.
One hour . . . . . Professor d'Hauteserve.
To be taken in conjunction with 44b *or* 46.
Reference Books: Darmsteter, Cours de Grammaire historique. Parts I, II: F. Brunot, Histoire de la langue française; Holmes & Schutz. A history of the French Language (Farrar & Rinehart).

44b. FRENCH STYLISTICS. Third and Fourth Years. (Full Course)

Two hours.....Professor Launay.

Thought and Expression—Intellectual and affective elements of speech with special reference to synonymy. Social and psychological background of words and phrases. Levels of speech.

45. HISTORY OF THE FRENCH NOVEL. Third and Fourth Years. (Full Course)

Three hours.....Professor Launay.

(Given in 1948-49)

46. HISTORY OF FRENCH LYRICAL POETRY. Third and Fourth Years. (Full Course)

Two hours.....Professor Larivière.

47. SURVEY OF CONTEMPORARY FRENCH LITERATURE.

Third and Fourth Years. (Full Course)

Three hours.....Professor Larivière.

(Given in 1948-49)

48. ADVANCED PHONETICS. Third and Fourth Years.

One hour.....Miss Bodier.

To be taken in conjunction with 44b *or* 46.

49. COMPARATIVE LITERATURE. (Full Course)

Three hours.....Professor Noad.

The influence of English Literature upon the continent of Europe in the 18th and 19th centuries. *Given in the Department of English as Course 16.*

HONOURS COURSES IN FRENCH

Honours in French begin in Second Year. Only exceptionally will students be permitted to take Honours Courses in their third year without having previously passed 21 and 22.

All students taking Honours in French are required to take in their third or fourth years French 44a. History of the French Language, and French 48, Advanced Phonetics.

Prerequisite: 11.

Second Year: 21 and 22.

Third Year: Three full courses (or the equivalent) including at least one full honours course.

Fourth Year: Three full courses (or the equivalent) including at least one full honours course, and courses 44a and 48 if not previously taken.

Combined Honours Course

Prerequisite: 11.

Second Year: 21 and 22.

Third Year: Two full courses (including one Honours Course) or their equivalent.

Fourth Year: Two full courses (including one Honours Course) and courses 44a and 48 if not previously taken.

M.A. Courses

See the Announcement of the Faculty of Graduate Studies and Research.

SPANISH

N.B.—Students are reminded that Spanish 11 (which is elementary) is not a credit course and that it is necessary to take Spanish 11 and 21, over two separate years to obtain *one* credit and fulfil their language requirement.

11. First Year. (Full Course)

Three hours . . . . . Professor Henry and Mr. Stegen.

Grammar, reading and dictation, oral exercises and composition.

Texts: Keniston, Learning Spanish (Holt); Castillo & Sparkman, Graded Spanish Readers (Heath).

21. Second Year. (Full Course)

Three hours . . . . . Professor Henry and Mr. Stegen.

Further reading. Translation. Free Composition. Conversation.

Texts: Tarr & Centeno, A Graded Spanish Review Grammar with Composition (Crofts); El Eco (Odyssey Press); M. A. de Vitas, Spanish Short Stories (D. Appleton Century).

31. THIRD YEAR. (Full Course)

Three hours . . . . . Professor Henry and Mr. Stegen.

Nineteenth century literature in Spain and Spanish America. Free Composition. Translation. Conversation.

Texts: Levy, Present-Day Spanish (Dryden Press); Knickerbocker & Levy, Modern Spanish Prose Readings (Appleton).

41. FOURTH YEAR. ADVANCED COMPOSITION. (Full Course)

Three hours . . . . . Professor Henry and Mr. Stegen.

The Golden Age of Spanish literature. Spanish American civilization. Twentieth century literature in Spain and Spanish America.

Texts: Villa Fernández, Latinoamérica (Holt); Calderon, La Vida es Sueño (American Book Co.); Lope, Peribanez, etc., (Ed Losada); Tirso, La Prudencia en la Mujer, etc., (Ed. Losada).

A list of novels and plays for private reading will be given at the beginning of the session.

SOCIOLOGY

Professor . . . . . Carl Addington Dawson
Associate Professors . . . . . Forrest E. LaViolette, Oswald Hall
Lecturers . . . . . Aileen D. Ross, Nathan Keyfitz

1. Introduction to the Study of Society. Second Year. (Full Course)
A. Three hours . . . . . Professor Dawson.
B. Three hours . . . . . Professor LaViolette.
C. Three hours . . . . . Miss Ross.

2. The Community. Third and Fourth Years. (Full Course)
Three hours . . . . . Professor Dawson.

3b. Minority Groups. Third and Fourth Years. (Half Course)
(Given in 1948-49) . . . . . Professor Dawson.

4a. Criminology. Third and Fourth Years. (Half Course)
First term: Three hours . . . . . Professor LaViolette.
Text: Sutherland, Principles of Criminology.

5b. Social Anthropology: The Culture and Social Organization of Preliterate Peoples. Third and Fourth Years. (Half Course)
Second term: Three hours . . . . . Professor LaViolette.

6b. Social Movements. Third and Fourth Years. (Half Course)
(Given in 1948-49) . . . . . Professor LaViolette.

7a. The Family. Third and Fourth Years. (Half Course)
First term: Three hours . . . . . Miss Ross.
Text: Burgess and Locke, The Family.

8. Introduction to Social Statistics. Third Year. (Full Course)
Three hours . . . . . Mr. Keyfitz.
Various aspects of inference from numerical data. Special techniques and their use in sociology; averages, standard deviation, measures of correlation.
Text: McCormick, Introduction to Social Statistics.

9b. The Sociology of the Child. Third and Fourth Years. (Half Course)
Second term: Three hours . . . . . Miss Ross.

10. Advanced Social Statistics. Fourth Year. (Full Course)
Three hours . . . . . Mr. Keyfitz.

Statistical Methods—multiple correlation, analysis of variance, tests of significance. Sampling procedures. Life tables. Vital rates. Construction of questionnaires and scales.

11. Social Institutions. Fourth Year Honours. (Full Course)
Three hours . . . . . Professor LaViolette.

12. Social Attitudes and Personality. (Full Course)
Fourth Year Honours . . . . . Professor Laviolette.
(Given in 1948-49)

13. Sociology of Industrial Institutions. Fourth Year. (Full Course)
Three hours . . . . . Professor Hall.

14. Population and Migration. Fourth Year. (Full Course)
Three hours . . . . . Professor Hall.

Honours Courses

Second Year: Course 1 and two courses selected from any two of the allied Departments of Economics, Geography, History, Philosophy and Psychology.

Third Year: Two full courses.

Fourth Year: Three full courses.

The Department requires Honours students to take courses 1, 2, 4, 5, 7, 8, 9 and either 11 *or* 12, making the minimum of six full courses. A liberal use is made of courses in allied Departments in planning the complete programme for Honours students.

Students taking Honours in Sociology and one other subject are required to take two courses in each Department during the third and fourth years.

Graduate Courses

For graduate courses in Sociology, see the Announcement of the Faculty of Graduate Studies and Research.

ZOOLOGY

Professors ..... J. Stanley, N. J. Berrill
Assistant Professors ..... M. J. Dunbar, H. R. Scott
Lecturer .....
Carpenter Teaching Fellow ..... J. M. Henderson
Professor of Parasitology ..... T. W. M. Cameron

11a. (1a) The Animal Kingdom. (Half Course)

First term: Three hours lectures and three hours laboratory.
Professor Berrill (at Dawson, Professor Scott.)

The nature and evolution of the animal world, with emphasis upon types, environments, adaptation and evolutionary processes.

Text: Buchsbaum, Animals without Backbones (Chicago U. P.).

11b. (1b) Man and his Evolution. (Half Course)

Second term: Three hours lectures and three hours laboratory.
Professor Stanley (at Dawson, Professor Scott.)

The Zoological history of man as a vertebrate animal; an elementary study of the structure and physiology of man, with a review of the evolutionary processes which have produced modern man.

Text: Hegner, College Zoology (MacMillan).

21. (2) Vertebrate Zoology. (Full Course)

Two hours lectures and three hours laboratory.
Professor Dunbar (at Dawson, Professor Scott.)

The comparative anatomy of the vertebrates and the evolutionary history of the functional systems of the body. The origin, evolution and classification of the six classes of the vertebrate phylum; the organization of the vertebrate body in general and an introduction to mammalian anatomy.

Prerequisite: Zoology 11a, 11b.

Texts: De Beer, Vertebrate Zoology (Oxford U. P.); Romer, Man and the Vertebrates (Chicago U. P.).

Laboratory Manual: Breland, Manual of Comparative Anatomy (McGraw-Hill).

22a. (3b) Comparative Histology. (Half Course)

First term: Two hours lectures and three hours laboratory.
Professor Scott and Mr. Henderson.

A comparative study of the microscopic structure of animal tissues and organs; and interpretation of this structure in terms of function and embryonic origin; an introduction to human histology.

Prerequisite: Zoology 11a, 11b.

Text: Cole, Comparative Histology (Blakiston).

22b. (3a) Vertebrate Embryology. (Half Course)

Second term: Two hours lectures and three hours laboratory.
Professor Berrill.

A comparative study of embryonic development in the various classes of vertebrates, leading to an interpretation of human development.

Prerequisite: Zoology 11a, 11b, 22a.

Texts: De Beer, Vertebrate Zoology (Oxford U. P.).

Lab. Manual: Rugh, Vertebrate Embryology (Burgess).

23b. Tropical Biology. (Half Course)

Second term: Three hours.....Professor Cameron.

General account of tropical environment, practical problems and hygiene, tropical seas, fauna and flora of rain and mist forests and savannahs, the great mammals, equatorial seasons and topography, marine and fresh-water fauna, zoogeography.

Prerequisite: Zoology 11a.

Text: Hesse & Allee, Animal Geography (McGraw-Hill).

24. (6) Invertebrate Zoology (except Arthropoda). (Full Course)

Two hours lectures and three hours laboratory.....Professor Stanley.

A study of the comparative anatomy, taxonomy, development, evolution and economic importance of invertebrate animals other than the Phylum Arthropoda.

Prerequisites: Zoology 11a and 11b.

Text: Borradaille, Eastham, Potts, The Invertebrata (MacMillan).

25. (6) The Arthropoda. (Full Course)

Three hours . . . . . Professor Stanley.

A study of the comparative anatomy, taxonomy, development, evolution and economic importance of animals of the Phylum Arthropoda.

(Given in 1948-49)

Prerequisites: Zoology 11a and 11b.

Text: Borradaille, Eastham, Potts, The Invertebrata (MacMillan).

31b. (5b) Microscopical Technique (Honours only). (Half Course)

Primarily a laboratory course in methods of making various types of microscope slides and other preparations.

Nine hours . . . . . Mr. Henderson.

Prerequisite: Zoology 11a and 22a.

Text: Pantin, Microscopical Technique (Cambridge U. P.).

32. (7) Animal Ecology. (Full Course)

Three hours . . . . . Professors Stanley and Dunbar.

A study of the inter-relations between animals, groups of animals, and their environments. In the first term the various environmental and biotic factors are discussed (autecology) and in the second term the groups and associations are related to their environments (synecology).

Prerequisites: Zoology 11a and 11b.

33. (4) Experimental Zoology. (Full Course)

Three hours . . . . . Professor Berrill.

General analysis of development, together with normal, regenerative and malignant growth; experimental and analytical methods; theory construction; guide to current zoological literature.

Prerequisite: Zoology 22a and b (2nd class standing).

Text: Stiles, Guide to Zoological literature; Weisz, Principles of Development (H. Holt).

34. Culture Methods. (Honours Zoology). (Half Course)

Four hours laboratory and conference period weekly throughout session. . . . . Professor Berrill.

Methods of culture and maintenance of invertebrates and lower vertebrate animals, and studies of their life cycles.

Prerequisite or concurrent: Zoology 34.

Text: Galtsoff, Culture of Invertebrate animals (McGraw-Hill).

35. Applied Biomathematics. (Half Course)
Professor Stanley.

An elementary study of mathematical theories of growth and form, mathematics as applied to growth of populations, host-parasite relations, and evolutionary theory.

Prerequisite: Mathematics 24 and any biology course.
(Given in 1948-49)

36. Advanced Vertebrate Palaeontology. (Half Course)
Professor Dunbar.

A study of the history and materials of vertebrate palaeontology, and the origin of radiation of each group; the evolution of man; the whole from a climatological and ecological as well as a morphological point of view. The principles of evolution demonstrated in past organic history.

Prerequisite: Zoology 21.
Text: Romer, Vertebrate Palaeontology (Chicago U. P.).
(Given in 1948-49)

37. History of Biology. (Half Course)
(Extending throughout the session) . . . . . Professor Dunbar.

The history of biology from Aristotle to the present day; including the development of scientific observation in anatomy, comparative morphology, ecology, embryology and palaeontology. Theories of the relationships of animals, parts of animals, and of their evolution. Philosophical history of biology. Biological expeditions.

Prerequisite: Zoology 11a.

41. Zoological Research. (Honours Zoology only, Fourth Year).
Staff.

Individual training in zoological research methods, fields of research, and introduction to field and laboratory projects. Thesis and seminar presentations.

Honours Course in Zoology

Students desiring to take honours in Zoology should consult the Department concerning courses to be taken, and the decision to take honours should be made as early as possible.

Graduate Courses

See the Announcement of the Faculty of Graduate Studies and Research.

McGILL UNIVERSITY

MONTREAL

SCHOOL OF COMMERCE

ARTHUR PURVIS MEMORIAL HALL

1947 - 1948

McGILL UNIVERSITY

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McGILL UNIVERSITY

SCHOOL OF COMMERCE

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L., LL.D.

Dean of McGill College.....A. H. S. Gillson, O.B.E., M.A.

Director of the School of Commerce..H. D. Woods, M.A.

Comptroller and Executive Assistant to the Principal.....S. H. Dobell, D.S.O.

Bursar.....William Bentley, C.G.A.

Registrar.....T. H. Matthews, M.A.

B. COM. ADVISORY COMMITTEE

Professor H. D. Woods, *Chairman*

The Dean
Professor E. F. Beach
Professor A. V. Harris
Professor W. H. Hatcher
Professor B. H. Higgins
Professor B. S. Keirstead
Professor D. R. Patton
Professor H. Tate
Professor P. F. Vineberg
Professor F. M. Watkins

A complete list of the teaching staff of the University, including the School of Commerce, is printed as a separate announcement, which may be obtained from the Registrar's Office.

SCHOOL OF COMMERCE OFFICE —HA. 0998

SCHOOL OF COMMERCE LIBRARY—HA. 5952

1020 Pine Avenue West

ADVISORY COUNCIL

FOR THE

SCHOOL OF COMMERCE

THE PRINCIPAL, *Chairman*

L. J. BELNAP

SAMUEL BRONFMAN

NORMAN DAWES

GILBERT JACKSON

FREDERICK JOHNSON

H. P. THORNHILL

F. B. WALLS

SCHOOL OF COMMERCE

GENERAL INFORMATION

The School of Commerce is an integral part of the Faculty of Arts and Science, and is therefore under the administration of the Dean of that Faculty. The School offers four years of undergraduate work leading to a degree of Bachelor of Commerce (B. Com.). The work of each year will normally consist of five courses each of three class sessions per week, which sessions may be in the form of lectures, demonstrations, laboratory or discussion periods, depending on the course. A student will therefore have about fifteen hours a week of class meetings. The balance of his time will be devoted to readings, problems, the preparation of reports, essays and theses, and extra-curricular activities.

Certain of the five courses taken each year are obligatory; the remainder are selected by the student. Some of the courses are primarily commerce subjects; others are regular Arts subjects taken with students who are taking the B.A. and B.Sc. degrees.

The Commerce curriculum is designed as a semi-professional educational program. Basic studies in Accounting, Statistics, Commercial Law and Economics, and a minimum of general Arts work in Mathematics, Languages and Science are required. From this foundation the student may continue with further Commerce work in Accounting, Finance, Industrial Relations, Marketing and Business Organization and Management, or concentrate further upon courses in Economics, Political Science, Psychology, Sociology, Languages, or other approved studies. Students are assisted in their selection of these courses. Optional sequences must be approved by the Director.

The School of Commerce Administrative offices are in the Arthur Purvis Memorial Hall at the corner of Pine Avenue and Peel Street. The facilities of the Redpath Library are available to all students and a special Commerce Library is provided in Purvis Hall.

Information about the evening classes will be found on p. 928 of this announcement.

ENTRANCE REQUIREMENTS

Admission to the First Year

A student may apply for admission to the First Year of the B.Com. course after passing in the required subjects of the School Certificate Examination or one of the examinations recognized by the University as the equivalent.

Admission with Advanced Standing

Students with Senior Matriculation standing or a recognized equivalent may be granted advanced standing provided they are given credit for specific first year subjects by the appropriate departments. Only students with at least a second-class average in Senior Matriculation will be considered for entrance directly into second year.

Admission by Transfer

Application for transfer into an upper year of the School should be made to the Registrar's Office. It must be made on the regular form and supported by certified copies of the applicant's previous academic record including the matriculation record. Such an application will be considered only if the student is in good standing and has a record which justifies the transfer.

Students admitted into the Second or the Third Year will be required to take certain courses compulsory in a lower year, unless exempted.

Two years of residence are required as a minimum for the degree, hence students can not be allowed to transfer into the fourth year.

APPLICATION FOR ADMISSION TO THE SCHOOL OF COMMERCE

All applications to enter the School of Commerce must be made on forms which may be obtained from the Registrar's office. Each applicant from a High School should see that a confidential report is sent from his school Principal to the Registrar, as such a report is necessary for the consideration of the application. Completed applications must reach the Registrar before September 5th.

Each accepted candidate will receive a formal acceptance to a definite course and year and this must be kept for presentation at registration.

The number of admissions is limited and the School is not bound to accept applicants who have passed the required examinations.

REGISTRATION

Monday the 29th of September is Freshman Day and all students entering the School of Commerce for the first time are required to attend a meeting to be held in Moyse Hall on that morning at 9 o'clock.

Registration in upper years will start on Thursday the 25th of September and will continue through to Friday.

After September 30th a special late registration fee must be paid (see the General Information Pamphlet included in this announcement).

No student will be admitted after October 17th except by special permission of the Dean.

Women students of the School, after registration, are required to enter in the roll book of the Royal Victoria College their names, home addresses and addresses in Montreal. Students of the Royal Victoria College not residing with their parents or guardians in Montreal, who do not apply for residence in the College, are required to submit their plans for residence in writing to the Warden and to obtain written approval.

REGISTRATION PROCEDURE

Each regular undergraduate must be registered for the courses and year to which he has been accepted. Limited undergraduates and Partials must obtain approval of their courses from the Director of the School and the Dean's office before proceeding to register.

All students intending to take an Honours Course in Economics must obtain the approval of the Chairman of the Department of Economics and the Director of the School before registration.

Courses of study for the B.Com. degree are laid down on pages 912 to 913 and details of these courses are found in pages 914 to 928. Information regarding registration for Honours in Economics, Distinction, and Great Distinction is found on page 909.

A special time-table will be provided so that students may avoid conflicts in the courses which they elect to take.

An "extra" course may be taken in any year of the General course provided that the student has obtained an average of 65% in his previous year. This "extra" course is not included in his sessional rating, but, if he wishes to apply for credit for it later, he must pass the regular examinations and have taken all the essay and laboratory courses required.

No ordinary undergraduate may attend classes in any course for which he is not registered.

CHANGING COURSES

Students who wish to change the courses for which they have registered must first obtain the approval of the Director of the School and then apply to the Assistant Dean's Office for permission to do so. This permission may be granted provided that such changes do not involve conflicts in their time-table or destroy the required sequence of courses. A student taking an Honours course in Economics must first obtain the approval of the Chairman of the Department of Economics.

No change will be permitted after October 18th.

EXEMPTIONS

Exemption from a course may be granted a student if he satisfies the instructor in that course and the Director that he has completed its equivalent. If so exempted, he must take another course to replace it on his list of requirements for that year.

ATTENDANCE

Excuses for absences in excess of one-eighth are entertained only in cases of serious illness (which must be vouched for by a proper medical certificate), domestic affliction, and such other cases as are provided for by special regulations of the Faculty. Medical certificates covering absences must be presented at the Dean's office by the student immediately after his return to University work. Such certificates are filed, and, if they are accepted, the Dean gives the student a statement excusing the absences covered; this must be shown to all the professors concerned as promptly as possible.

EXAMINATIONS

INTERIM TESTS

There are two regular interim tests for all students of the First Year, the first being held near the middle of November and the second during the week preceding the Christmas vacation. The test is usually the equivalent of a standard examination of one hour.

Students who fail in more than one-third of these tests are not allowed to be members of a College athletic team, to hold office in any College society, or to take part in any major student activity.

MID-SESSIONAL EXAMINATIONS

There are no regular mid-sessional examinations in January except in courses which are given only in the first term, and in these courses the examination may be held in May with the other final examinations if the Department so desires. Members of the teaching staff may, however, give from time to time such interim examinations as they think necessary.

FINAL EXAMINATIONS

The final examinations are held in April and May.

PASS MARK AND CLASSES

The pass mark in all examinations is 50 per cent, and the marks for first and second class standing are 80 per cent and 65 per cent respectively.

DISTINCTION AND HONOURS

"Distinction" in the general course will be awarded to students, other than those registered in the Honours course in Economics, who achieve a 75 per cent average in the second, third and fourth years.

"Great Distinction" will be awarded to students taking the thesis course if the student achieve 80 per cent in the second, third and fourth years.

"Honours"— A student may take a degree of Bachelor of Commerce with Honours in Economics if he elects to do so at the beginning of his second year, obtains the permission of the Director, and during the four years takes a minimum of seven courses in Economics with at least a second class average.

ADVANCEMENT TO REGULAR STANDING IN ANY YEAR

An undergraduate is in regular standing only if he has completed all the courses of his previous years.

A student who does not pass in at least 60 per cent of his courses in the May examinations shall be required to discontinue studies in the Faculty.

An undergraduate who has not passed all his examinations in May and has not been required to leave the university, will have his standing determined in September, on the results of the regular supplemental examinations.

ADVANCEMENT WITH CONDITIONS

If after the supplemental examinations in September a student still has a failure in *only one full course* or two half-courses of the year he is attempting to complete, he may proceed to the following year *conditioned* in this course or in these two half-courses. Also, if the course in which he is conditioned is prerequisite to the other courses in that subject, he may not take such other courses until the condition is removed, unless he receives special permission from the Departments concerned.

FAILURE TO ADVANCE: PROBATION

1. A student who after the September supplemental examinations is not qualified to proceed either as a regular or as a conditioned student may be placed on probation if his standing warrants it.

Examples: A second year student who has failed to remove a first year condition, or a student who has failed in more than one full course of the past session, but not in more than half his courses for that session.

2. A student is permitted to remain on probation for only one year.

3. A student on probation is required to take an additional year of study consisting of at least four courses and is registered in the year which he has not completed. Courses required for the student's degree must be repeated in the year of probation if the student has previously failed in them. The remainder of the courses are selected with the approval of the Director.

4. All the courses of the year of probation must be passed before the student will be admitted to regular standing.

5. Courses taken to fulfil the requirements of the year of probation can not be credited to a subsequent year of regular standing.

FAILURE TO ADVANCE: TRANSFER

Any student who has failed in any year of one of the three degree courses of the Faculty may not be admitted to the same year in courses for another degree in the Faculty except under extraordinary circumstances and by sanction of the Dean's Office.

REGULATIONS CONCERNING SUPPLEMENTAL EXAMINATIONS

A student who has failed in *one or more* courses is expected to write the regular supplemental examinations in these courses in the following September, if the regulations permit him to do so.

A student who fails to pass a supplemental examination in September or who is prevented by illness or other compelling reason from writing, may apply to the Dean for permission to write the next regular examination, normally in May, provided that there is no conflict in the examination time-table.

All applications for supplemental examinations must be made to the Dean in writing and must reach the office of the Dean before August 15th (for the September supplemental examinations), December 1st for the regular examinations of first term courses and March 15th for the May sessional examinations if written as supplemental examinations.

FEES

Regular University fees and special fees are explained in the General Information Pamphlet enclosed with this Announcement.

Fees for the Evening Courses are shown on page 937.

DATES OF PAYMENT.

Fees are due and payable at the Accounting Office between the hours of 9 a.m. and 4 p.m. (Saturday 9-12), on the following dates:—

Friday, September 26th
to
Friday, October 3rd

If desired, fees may be remitted by mail before the above dates.

The second instalment of tuition fees is due and payable on February 2nd. An additional $2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the above paragraph.

Failure to pay fees by the prescribed dates will result in suspension from attendance at classes by the Dean of the Faculty until fees are paid, or a satisfactory arrangement is made with the Chief Accountant.

EXPENSES

An estimate of expenses will be found in the General Information Pamphlet included in this Announcement.

SCHOLARSHIPS, PRIZES AND MEDALS

See separate Announcement of Scholarships, Bursaries, Prizes, and Loan Funds.

COMMERCIAL SOCIETY LOAN FUND

A fund has been established by the Commercial Society to be known as "The Commercial Society Loan Fund," for the purpose of aiding each year one or more students of the School of Commerce who are entering their fourth year, to complete their course. Loans from this Fund are repayable within two years after graduation. Applications should be made to the Director of the School of Commerce.

CURRICULUM

The curriculum leading to a B.Com. degree consists in part of compulsory courses and in part of optional courses chosen in accordance with the student's individual interests. As optional courses a student may take

any courses offered in the Faculty of Arts and Science which are approved by the Director. A student in any year is expected to satisfy himself before he selects any optional course:

(1) That he has completed any pre-requisite work for the course.

(2) That there is no conflict in his time-table.

(3) That his selection is approved by the Director.

Students at the time of registration have an opportunity of discussing with the Director the optional courses that they may wish to take.

Compulsory Courses	Optional Courses
First Year	
Economic History (Economics 100) Accounting 1 Mathematics 11a and 12b English 2	One of French 11** Spanish 11 German 1 Science in Economic Life 1 (Geology 13)
Second Year	
Elements of Economics (Economics 211C) Accounting 2 Commercial Law 1	Two full courses or the equivalent in half courses chosen from the following and approved by the Director. Science in Economic Life 2 (Not given in 1947-48) Mathematics* English 4, 6, 7, 15 French 21 German 2 Spanish 21 Psychology 21 Philosophy 1 Sociology 1 History 1, 2, 3, 11 Geography Political Science 200

**See page 926.

*Mathematics 23a and 23b are compulsory for students who intend to specialize in Accounting.

THIRD YEAR	
Economic Statistics (Economics 361) Money and Banking (Economics 321)	The equivalent of three full courses of:— Science in Economic Life 2 or 3 (Chemistry 23) Accounting 3 Economics Political Science Mathematics Languages Geography, etc.
FOURTH YEAR	
Economic Analysis (Economics 412)	The equivalent of four full courses of:— Accounting 4 Business Organization Marketing Thesis Economics Political Science, etc.

Fourth year students who have had a second class average are recommended to take the thesis course. No student can graduate with Great Distinction unless he has taken this thesis course.

STUDENTS WORKING TOWARDS A PROFESSION

Students who intend after graduation to enter a profession should acquaint themselves with the requirements for admission to that profession, and should take these requirements into consideration when choosing their optional courses.

Candidates for the Licentiate in Accounting of McGill University, conferring on its holders the right to become members of the Institute of Chartered Accountants of Quebec, must have taken the following courses in proceeding to their degree of Bachelor of Commerce—

Four courses in Theory and Practice of Accounts.
Business and Industrial Organization and Management (or approved alternative).
Commercial Law.
Economics 211C.
Mathematics 11a, 12b, 23a and 23b.

For further particulars see below—p. 936.

THE MASTER OF COMMERCE DEGREE

Bachelors of Commerce who have obtained at least second class standing and who have the permission of the Director of the School of Commerce and of the Department of Economics may proceed to the Master of Commerce Degree. For particulars see the Announcement of the Faculty of Graduate Studies and Research.

DESCRIPTION OF COURSES

The following list includes all required courses for the B.Com. degree, as well as the principal courses available as options from which the student may choose to complete his program. Unlisted courses offered by the Faculty of Arts may also be chosen. The complete program of any student must be approved by the Director.

Courses required for the Bachelor of Commerce degree are designated (*Req. B.Com.*).

Courses required for the Licentiate in Accountancy are designated (*Req. L.A.*).

ECONOMICS COURSES

100. Economic History. First Year. (Full Course)
Three hours . . . . . Professor James

Evolution of economic institutions; the Ancient Empires; economic and social aspects of the Decline and Fall of the Roman Empire; mediaeval agrarian economy; fairs, towns and trading companies; mediaeval money; the Voyages of Discovery; religion and the rise of capitalism; Nationalism and Mercantilism; the Colonial System; the beginnings of modern banking; the great inventions and the Factory System; North American industrial development; trade unions and the co-operative movement; legislative protection of the worker; international finance; rise and fall of the Gold Standard; evolution of the central banking function; recent economic changes. (*Req. B.Com.*)

211C. Principles of Economics. Second Year. (Full Course)
Three hours . . . . . Professor Beach

This Course is prerequisite to all courses in Economics except Economics 100.

An introduction to the general principles of economics, dealing mostly with production and exchange; but some consideration is given to distribution. Specific types treated are: the factors of production, specialization, competition, risk, the Monetary system, banking, price levels, supply and demand analysis, international trade, wages, interest, rent and profits. (*Req. B.Com.*) (*Req. L.A.*)

311. History of Economic Thought.
Third or Fourth Year. (Full Course)
Three hours . . . . . Professor Marsh

A critical study of the writings of the great economists, with particular reference to the period from Adam Smith to the present day.

321. Money and Banking. Third Year. (Full Course)
Three hours . . . . . Professor Higgins

Theory and practice of money and credit; organization and operations of financial institutions; monetary policy; concept and function of money; early history of credit institutions; the crisis of 1825, the Peel Bank Act, and the development of the British financial system; the National Banking System in U.S. and the evolution of the Federal Reserve System; early development of Canadian banking; effects of World Wars I and II and of the Great Depression on U.S., U.K., and Canadian banking; monetary policy and economic fluctuations. (*Req. B.Com.*)

331. Government Regulation of Industry.
Third or Fourth Year. (Full Course)
Three hours . . . . . Professor Higgins

A study of the economic policy of governments, with particular regard to corporations and forms of business enterprise, regulation of markets and competition, monopoly problems, public utilities, and governmental enterprises.

341a. Labour Problems. Third Year. (Half Course)
First term: Three hours . . . . . Professor Rollit

The origin of labour problems in modern industrial organization; their interpretation in the light of economic theory; critical review of the various problems and remedial measures.

341b. Labour Institutions. Third Year. (Half Course)
Second term: Three hours . . . . . Professor Woods

The course is designed to supplement the course in labour problems but may be taken separately. It deals with trade unions, co-operative societies, credit unions, labour political movements, labour legislation, and governmental organization in the labour field. Students are advised to take Economics 341a.

351. Canada: Geographic, Industrial and Economic Problems.
Third Year. (Full Course)
Three hours . . . . . Professor Culliton

This course consists of discussions on current economic and political problems in Canada with special emphasis on their origins, causes and possible solutions; e.g., the wheat problem, the coal problem, etc.

361. Economic Statistics. Third Year. (Full Course)
(May be taken as half course [361a] in first term.)
Three hours . . . . . Professor Beach.

Economics 211, Mathematics 11a, 12b are prerequisites to this course; Mathematics 23a is very helpful.

A study of the gathering, analysis, and presentation of statistical data. Specific types include: sources, tabulation, charting averages, dispersion, frequency distribution, reliability, correlation, index numbers, trends, seasonal and cyclical fluctuations. (*Req. B.Com.*)

411. Advanced Economic Theory. Fourth Year. (Full Course)
Three hours . . . . . Professor Keirstead

Prerequisites for this are Economics 211H, Economics 311.

Analysis of problems presenting some difficulty and attempt to formulate the theoretic problems on the frontiers of the science and to study attacks on these problems in the recent literature.

412. Economic Analysis. Third or Fourth Year. (Full Course)
Three hours . . . . . Professor Beach

A systematic study of the techniques and principal results of theoretical analysis, including the theory of prices, wages, interest rates; the theory of accounts; the marginal analysis of individual firm, industry, and household; the theory of capital. (*Req. B.Com.*)

421a. Public Finance. Third or Fourth Year. (Half Course)
Three hours . . . . . Professor Higgins

Objectives of tax policy; fiscal control of monopoly; effects on allocation of resources and distribution of income, of personal income taxes, corporate income taxes, property taxes, commodity taxes, etc. Intergovernmental financial relations; Canadian, American and British tax practice.

422a. Economic Fluctuations. Third or Fourth Year. (Half Course)
First term: Three hours . . . . . Professor Higgins

This course is prerequisite to Fiscal Policy.

Analysis of the nature and causes of fluctuations in income, employment, prices, production, etc. The 3 types of cycle: Kitchin, Jugler, and Kondratieff; secular stagnation, the concept of national income; major components; fundamental savings-investment and monetary flow equations; the multiplier; the relation; interactions of multiplier and relation; the Schumpeter Model; the Kalecki-Kaldor model; the Hayek model; the Keynesian system; Hansen and the doctrine of economic maturity.

422b. Fiscal Policy. Third or Fourth Year. (Half Course)
Second term: Three hours . . . . . Professor Higgins

Prerequisite for this course is Economics 422a (Business Cycles) or Economics 421a (Public Finance).

This course is concerned with actual and proposed economic policies for the maintenance of full employment without inflation. Nature of the employment problem; policy implications of "long wave" and "stagnation" theories; policies to stimulate private investment; policies to increase consumer spending; public investment policy; monetary vs. fiscal policy; tax reduction vs. increased expenditures; foreign trade policy and employment; debt management.

424b. International Trade and Trade Policy.
Fourth Year. (Half Course)
Second term: Three hours . . . . . Professor Marsh

Prerequisite: Economics 211, Economics 321.

A study of the economic problems which result from the existence of sovereign states: foreign exchanges, tariffs, commercial policy, state trading, international economic agreements.

425b. Corporation Finance. Fourth Year. (Half Course)
Second term: Three hours . . . . . Professor Vineberg

Prerequisite: Economics 211.

Nature and characteristics of the Corporation. Growth of corporations—degree of corporate enterprises—characteristics of the "corporate system". The government and corporations. Intercorporate relations—the holding company. The Capital Market—finance and corporate finance—the role of banks, insurance companies, trust companies, corporate and institutional investors in the market—the investment trust. The Stock Exchange. Capitalization—par value and no par value stock—preferred shares—apportionment of earnings. Capital and voting power amongst different classes of investors—Redemption. Corporate Borrowing—Trust Deed and Bond issues—sinking fund—Equipment Obligations. Corporate Reorganizations. The Sale of Securities—Investment Banking—Regulation of Securities Sales in England, U.S. and Canada—The Securities and Exchange Commissions.

431. International Commodity Controls. Fourth Year. (Full Course)
Three hours . . . . . Professor Culliton

This course includes, as well as international commodity controls, the wider question of monopolies, cartels, patents and monopoly legislation. It is conducted along seminar lines.

432b. TRANSPORTATION. Fourth Year. (Half Course)
Second term: Three hours . . . . . Professor Rollit

History and development of the Canadian transportation system; economic characteristics of the various transportation media; comparative analysis of cost and rate structures; problems of regulation and control.

441. INDUSTRIAL RELATIONS. Third and Fourth Year. (Full Course)
Three hours . . . . . Professor Woods

An introduction to the problems of employer-employee relations including the management of personnel, legislation, employee organization and the State function and public interest in industrial relations. Plant visits and reports are an integral part of the course. (*Presently Req. for L.A.*)

442. COLLECTIVE BARGAINING. Fourth Year. (Full Course)
Three hours . . . . . Professor Woods

A seminar course involving an intensive study of collective bargaining institutions and techniques, grievance procedures, law and the state machinery for industrial relations. The course covers trade unionism, employers associations, collective agreements, negotiations, the content of such agreements, conciliation and arbitration. Experience in other industrial countries is also examined.

461a. ECONOMETRICS I (Half Course)
First term: Three hours . . . . . Professor Beach

Prerequisite: Same as Economics 461b.

This course will be somewhat more elementary than Economics 461b.

461b. ECONOMETRICS II (Half Course)
Second term: Three hours . . . . . Professor Beach

Prerequisite: A course in (1) economic theory beyond the elementary level, a course in (2) elementary calculus, and a course in (3) statistics.

A treatment of economic theory in terms of mathematics and a testing of this theory with statistical evidence. A discussion of revenue and cost curves, and attempts to measure them statistically; a study of the theory of indifference curves and their application to family budget statistics; a study of various models of economic systems.

POLITICAL SCIENCE COURSES

200. Elements of Political Science. Second Year. (Full Course)
Three hours . . . . . Professor Mallory

This course is intended for students who do not propose to take further courses in Political Science.

A study of the concepts of Political Science by an examination of the National institutions and international status of Canada, Great Britain and the United States.

211a. Comparative Government: Constitutionalism.
Second or Third Year. (Half Course)
Three hours . . . . . Professor Watkins

This course is normally expected as a prerequisite for further courses in the field.

The analyses of certain basic concepts of Political Science, with illustrations drawn mainly from the experience of constitutional government as practiced in the United States and on the continent of Europe.

211b. Comparative Government: Dictatorship.
Second or Third Year. (Half Course)
Three hours . . . . . Professor Watkins

This course is prerequisite to all further courses in Political Science.

The analysis of certain basic concepts of Political Science, with illustrations drawn mainly from the experience of dictatorial government as practiced in National Socialist Germany and in the U.S.S.R.

311. History of Political Theory. Third Year. (Full Course)
Three hours . . . . . Professor Watkins

This course is prerequisite to Political Science C (Graduate).

A survey of the development of Western political thought from ancient Greece down to the present.

321b. Political Thought and Institutions of China and Japan.
Third or Fourth Year. (Half Course)
Second term: Three hours . . . . . Professor Watkins

Restricted to Third and Fourth Year students. No prerequisite.

A study of the traditional political systems of China and Japan, and of the problems resulting from various attempts to adapt those systems to the requirements of Western civilization.

(Not given in 1947-48)

322a. GOVERNMENT OF GREAT BRITAIN.
Third or Fourth Year. (Half Course)
First term: Three hours . . . . . Professor Mallory

Prerequisite: Political Science 211.

A study of the institutions and working of parliamentary government in Great Britain.

323b. GOVERNMENT OF THE BRITISH DOMINIONS.
Third or Fourth Years. (Half Course)
Second term: Three hours . . . . . Professor Mallory

Prerequisite: Political Science 211.

Institutions and working of parliamentary governments in the British Dominions.

324b. GOVERNMENT OF BRITISH COLONIAL EMPIRE.
Third or Fourth Year. (Half Course)
Second term: Three hours . . . . . Professor Mallory

Prerequisite: Political Science 211.

A study of the nature of imperial control, degrees of local self-government, Colonial economic development, and development of political institutions.
(Not given in 1947-48)

331b. THEORY AND PRACTICE OF NATIONALISM.
Third or Fourth Year. (Half Course)
Second term: Three hours . . . . . Professor Watkins

Prerequisite: History 1 or Political Science 311, preferably both.

A study of the conditions which led to the development of modern nationalism, and of the political techniques most commonly employed for the creation and maintenance of national sentiments.

351. GOVERNMENT OF CANADA. Third or Fourth Year. (Full Course)
Three hours . . . . . Professor Mallory

Prerequisite: Political Science 211.

The working of parliamentary federations in Canada. The problems of federal-provincial relations; the structure of parliamentary government; the evolution of national status.

ACCOUNTANCY

The first and second year courses are obligatory and are prerequisites to Accountancy 3 and 4. Third and fourth years are optional, but see pages 934 and 935.

ACCOUNTANCY 1—ELEMENTS OF ACCOUNTING.
First Year. (Full Course)

Introductions to Books of Account and Financial Statements; theory of debit and credit; principles of double entry; books of original entry; transactions through the general Journal, and sales and purchase books; special forms of cash book; controlling accounts; general ledger; accounts receivable and accounts payable ledgers; discounts, interest, prepaid and accrued charges; notes and bills of exchange cheques, invoices, statements of account, bills of lading and other; commercial papers; imprest system of petty cash; depreciation; reserves for bad debts and discounts; inward and outward consignments; capital and revenue expenditure; bank reconciliations; voucher register; single entry; preparation of Trading and Profit and Loss Statements and Balance Sheets; single proprietorship.

Professor Harris, Mr. Hall and Mr. Pugsley

ACCOUNTANCY 2.—PARTNERSHIPS, CORPORATIONS, AND MANUFACTURING ACCOUNTS. Second Year. (Full Course)

Operating Statements and Balance Sheets.

Partnerships: formation; the partnership agreement; classes of partners and of partnerships; rights, duties, and powers of partners; distribution of profits; admission and withdrawal of partners; partnership dissolution; sale of a partnership to a corporation; default of a partner; goodwill.

Manufacturing accounts and statements; factory departments; elements of cost; materials and supplies; work in process and finished goods accounts.

Corporations: formation and control; shareholders; directors; meetings; public and private companies; capital stock; limited liability; statutory books; auditors; dissolution.

Departmental accounts: distribution of charges to departments; comparison of departments' operations.

Depreciation: causes of and accounting for depreciation; Reserves and Reserve Funds.

Professor Patton, Professor Harris and Mr. Mellor

ACCOUNTANCY 3.—STATEMENT ANALYSIS, AUDITING, AND BRANCH ACCOUNTS. Third Year. (Full Course)

Balance Sheet: Principles of valuation of current and fixed assets and liabilities; contingent liabilities; critical analysis; ratios and enquiries; reports.

Bonds and debentures; security payment of interest and principal; the trust deed; bond issue and redemption; nominal and effective interest rates; amortization.

Sinking Fund reserves and investments; secret reserves.

Capital Stock; preferred and common shares; par and no par value; authorized, allotted, issued, and paid-up capital; forfeited and treasury stock.

Surplus; earned, distributable and capital surplus; capital and revenue profits and losses; dividends.

Comparative Balance Sheets and operating statements; schedule of working capital; sources and application of funds; equity of shares; sundry analyses; comparative ratios.

Branch Accounts; merchandise charged at cost, intermediate, or selling prices; foreign branches; conversion of accounts in foreign currency.

Auditing; classification and scope; internal check; rights, duties, and responsibility of auditors; fraud and error in accounts; legal regulations—Dominion and Provincial; audit procedure and programmes; audit certificate and reports, audit working papers; Investigations.

Professor Patton

ACCOUNTANCY 4. COST ACCOUNTING, CONSOLIDATIONS AND INCOME TAXES
Fourth Year. (Full Course)

Cost Accounting; Terms and Cost Formulæ; Elements of Cost; the general accounts and the Cost Records; materials—purchasing, receiving, storage, and consumption of materials; labour—time reports and payrolls, labour reports and distribution; manufacturing expense—principles of procedure, distribution to departments and to production; operating and financial statements; cost reports; estimating cost systems; standard costs; variances, cost ratios.

Budgetary Control, preparation and control of the budget, variable expense budgets.

Holding Companies; Consolidated Statements; Inter-company transactions and accounts—Stock and Bond holdings; Investment Accounts; Minority Interest.

Re-organizations, mergers and amalgamations—rights and privileges of creditors and shareholders, plan of reconstruction.

Executorships; Charge and Discharge Statements; Capital and Income; division of an estate; succession duties.

Bankruptcy and Liquidation Accounts; Receiver's Accounts; priority of creditors; Statement of Affairs; Deficiency Account; Realization and Liquidation Statement.

Income and Excess Profits Taxes, Individuals; Individual Proprietors; Corporations; general considerations; Taxable Income; Standard Profits.

Professor Patton

BUSINESS ORGANIZATION AND INDUSTRIAL MANAGEMENT

Not being given in the session 1947-48.

Economics 441 (Industrial Relations) is being offered as an approved substitute.

MATHEMATICS

11a. PLANE TRIGONOMETRY. (Half Course)
First term . . . . . Professor Tate

The elements of plane trigonometry, up to and including the solution of triangles by logarithms.

Text: H. Tate, Elementary Mathematical Analysis (Pitman).
(*Req. B.Com.*) (*Req. L.A.*)

12b. ANALYTICAL GEOMETRY AND ALGEBRA. (Half Course)
Second term . . . . . Professor Tate

The elements of the analytic geometry of the straight line, circle and parabola. Variation, progressions, permutations and combinations, binomial theorem.

Texts: H. Tate, Elementary Mathematical Analysis (Pitman).
(*Req. B.Com.*) (*Req. L.A.*)

23a. ANALYTIC GEOMETRY AND CURVE FITTING. (Half Course)
First term . . . . . Professors MacLean and Tate

The analytic geometry of the straight line, circle and parabola with application to curve fitting.

Text: C. H. Sisam, Analytic Geometry (Holt).
(*Req. L.A.*)

23b. THEORY OF INTEREST. (Half Course)
Second term . . . . . Professors MacLean and Tate

Simple and compound interest, discount, annuities certain, sinking funds, bonds, elementary interpolation.

Text: H. Tate, Mathematical Theory of Interest (Pitman).
(*Req. L.A.*)

24. ELEMENTARY CALCULUS. (Full Course)
Professor Williams and others

Limits, differentiation and integration of the elementary functions with applications, curvature, expansion of simple functions in infinite series, partial differentiation.

Texts: Middlemiss, Differential and Integral Calculus (McGraw-Hill); Ramsay, Elementary Calculus (C.U.P.).

38. Mathematics of Elementary Statistics. (Full Course)
Three hours.....Professor Tate

Prerequisite: Mathematics 24.

Frequency distributions, averages, moments, the normal curve, curve fitting, correlation theory, interpolation and construction of tables.

Text: Mathematics of Statistics, J. F. Kenny (Van Nostrand).

48. Mathematics of Life Insurance. (Full Course)
Three hours.....Professor Tate

Elements of finite differences, expectations of life, statistical applications of the mortality table, life annuities and assurances, reserves, conversion tables and return of premiums.

Texts: Menge and Glover, Mathematics of Life Insurance (Macmillan); Institute of Actuaries Text-Book (Layton); C. K. Knight, Advanced Life Insurance (Wiley).

Note

(1) Students who have not passed in both Intermediate Algebra and Intermediate Trigonometry at Junior Matriculation should take:
(a) Mathematics 11a and 12b in the first year.
(b) Mathematics 23a and 23b in the second year.
(c) Mathematics 24 or 48 in the third year.
(d) Mathematics 38 or 48 in the fourth year.

(2) Students who have passed in both Intermediate Algebra and Intermediate Trigonometry at Junior Matriculation should take:
(a) Mathematics 23a and 23b *or* 15a and 14b in the first year.
(b) Mathematics 24 in the second year.
(c) Mathematics 38 in the third year.
(d) Mathematics 48 in the fourth year.

(3) Students taking Honours in Economics should take Mathematics 24 in the second year.

(4) Mathematics 24 is prerequisite to Mathematics 38.

(5) Mathematics 23a and 23b are prerequisites to Mathematics 48.

(6) Students in Commerce who wish to take mathematical courses other than those listed above should consult the Department of Mathematics.

LAW

Commercial Law 1 (Full Course)
Three hours.....Professor P. F. Vineberg

Law of Contracts, Sale, Agency, Partnership, Company Law and Negotiable Instruments.

INTERNATIONAL LAW

Mr. Cohen

This course consists of an enquiry into the origin and nature of International Law, its scope and authority, and its history and contemporary development.

Taken with students in Law Faculty with permission of Mr. Cohen.

MARKETING (Half Course)

An introduction to the study of marketing institutions and marketing practices. The course includes a description and appraisal of methods of marketing agricultural, industrial and consumer commodities; an analysis of pricing and sales promotion policies; and a critical examination of distribution costs, marketing legislation and market research.

Professor _____

SCIENCE IN ECONOMIC LIFE

These courses are designed to give the student an understanding of the various factors in man's physical environment that determine his manifold activities and his ability to utilize them to his advantage. In general, these factors are the subject matter of several physical sciences.

SCIENCE IN ECONOMIC LIFE 1.—EARTH AND RELATED SCIENCES.
(Geology 13) (Full Course)

Professor Osborne

The various units of the earth's surface and their effects on climates and other features are discussed. The influence of these units on the occurrences of metals, non-metals, forest and agricultural products is considered along with the fundamental problems of transportation and power.

SCIENCE IN ECONOMIC LIFE 2.—PHYSICS.

Course to be arranged. Professor _____

SCIENCE IN ECONOMIC LIFE 3.—CHEMISTRY.
(Chemistry 70) Professor Hatcher

Chemistry has two classical subdivisions, organic and inorganic, and both with their many ramifications determine the ways in which matter can be made to serve man and, therefore, be of economic importance to him. The general and most useful principles of chemistry are treated so that the student can appreciate the rôle this science plays in modern industry.

THESIS COURSE

Students who have been recommended by the Director (generally those with a good second class average or better) should write a thesis under the direction of one of the instructors in the School of Commerce. Such a thesis will have the value of one full course. In order to graduate with Great Distinction a student must take this course. The students will

meet at a time and place to be announced. Subjects must be chosen and accepted by the Director by October 20th. A descriptive outline of the subject must be submitted to the Instructor by December 1st, and the final report, typewritten, must be submitted to the Director not later than April 1st.

ENGLISH

The courses in English give a general training in Composition and require a broad study of English Literature with a large amount of reading.

First Year

English 2. (Full Course)
Two hours a week.....Professor Noad and assistants

Literature, and Composition, as prescribed for students in the Faculty of Arts and Science—a general course. Readings and weekly individual conferences.
(*Req. B.Com.*)

Second Year

English Literature: Choice of Second Year Arts and Science courses.

Third or Fourth Year

A choice of any General Arts and Science courses in English in these years.

FRENCH

11. General Course.

Students who do not intend to continue their study of French beyond the first year are advised to join a special section of this course (11c) in which there will be more emphasis on language and less on literature. Students who intend to continue their studies in French should take the regular French course.

21. General Survey of French Literature from the Middle Ages through the Sixteenth and Seventh Centuries; French Composition.

41. French Civilization; Geographical Outline; Political, Social and Economic Aspects of French Life.

For additional Courses in French, see the Announcement of the Faculty of Arts and Science.

GERMAN

1. German Language. Miss Meyer and Mr. Block
2. German Language. Professor Graff
5. German Language. Miss Meyer

For additional courses in German, see the Announcement of the Faculty of Arts and Science.

HISTORY

1. European Civilization since the Roman Empire and its Expansion Overseas. Professors Bayley and Fieldhouse

2. General History of North and South America. Professor Adair

3. History of the British Empire Professor Cooper

14. Canada and the United States: Their Diplomatic and Economic Relations from Colonial Times to the Present.

(Can be taken as two Half Courses).....Professor Cooper

For additional courses in History, see the Announcement of the Faculty of Arts and Science.

PSYCHOLOGY

21. Introduction to Psychology. Second Year. (Full Course)

Three hours and one bi-weekly conference.....Professor MacLeod

This course is a prerequisite for all other courses in psychology.

36a. Human Relations in Business and Industry (Half Course)
Third and Fourth Years.

First term: Three hours.....Professor Webster

Topics include the selection and training of employees; analysis of work methods; accidents; fatigue and boredom; motivation; employer-employee relationships; selling, advertising, and market research.

Text: Moore, Psychology of Business and Industry.

54b. Personnel Selection and Vocational Guidance; Psychological Problems in Personnel Administration. (Half Course)

Third and Fourth Years.

Second term: Three hours.....Professor Webster

Morale in industry; labour-management relations; job specifications and tables of organization; training methods; the maladjusted worker; interviewing and use of personality inventories, etc.

Texts: Roethlisberger, Management and Morale; McMurray, Handling Personality Adjustment in Industry; Scott, Clothier, and Matthewson, Personnel Management.

For additional Psychology courses available, see the Announcement of the Faculty of Arts and Science.

SOCIOLOGY

1. Introduction to the Study of Society. (Full Course)

Three hours.....Professors Dawson and La Violette, and Miss Ross

Text: Dawson and Gettys, An Introduction to Sociology (The Ronald Press).

2. The Community. Third and Fourth Years. (Full Course)

Three hours.....Professor Dawson

13. Sociology of Industrial Institutions.

For additional courses in Sociology, see the Announcement of the Faculty of Arts and Sciences.

SPANISH

11. First Year. (Full Course)

Three hours.....Mrs. Henry

Grammar, reading and dictation, oral exercises and composition.

21. Second Year. (Full Course)

Three hours.....Mrs. Henry

Further cultural reading, translation, free composition, conversation.

31. Third Year. (Full Course)

Novelists of XIX Century. Advanced composition, translation, conversation.

EVENING COURSES

The evening courses are held in the Arts Building. With the exception of the Elements of Accounting, these courses are not regularly accepted for credit toward a B.Com. degree. An examination is held at the end of each course, and a certificate is granted by the University to successful candidates. Additional evening courses are offered through the Extension Department, about which information can be obtained in the Administration Building.

Students register and pay fees in the Arts Building from 5 to 7 p.m. from Monday, September 29th, through Friday, October 10th.

For further information telephone HA. 0998.

Examination results will be announced on or about June 15th.

ELEMENTS OF ACCOUNTING

Twenty-five lectures of two hours each. Monday 6-8 p.m., Monday 7-9 p.m., Tuesday 6-8 p.m., commencing September 29th.

A pass from this course is a prerequisite to Intermediate Accounting and Auditing.

Introduction to Books of Account and Financial Statements; theory of debit and credit; principles of double entry; books of original entry, general journal, sales and purchase books, cash books, voucher register; controlling accounts; general ledger; accounts receivable and accounts payable ledgers; discounts, interest, prepaid and accrued charges; notes and bills of exchange; business documents; depreciation; reserves for bad debts and discounts; consignments; capital and revenue expenditure; bank reconciliations; single entry; preparation of Trading and Profit and Loss Statements and Balance Sheets; single proprietorship.

Lecturers: G. B. A. Hall, W. A. Smythe
Demonstrators: J. C. Newland, L. P. Fournier, L. A. Lamarche

INTERMEDIATE ACCOUNTING AND AUDITING (PART I)

Twenty-five lectures of two hours each, given on Wednesdays, from 6 to 8 p.m., commencing October 1st. Students will be required to submit home-work for correction and return.

Principles of Operating Statements and Balance Sheets; Partnerships, formation, special problems, dissolution, sale to a corporation; Goodwill; Incorporated Companies—organization, share capital, bonds, annual meetings, statements, auditors; Manufacturing; Exceptional Losses; Departmentalization; Distribution of expenses and income; Depreciation; Comparison of Operating Statements; Working Papers.

Lecturers: Professor A. V. Harris, Mr. Pugsley
Demonstrators: Mr. Fournier, Mr. Blanch

INTERMEDIATE ACCOUNTING AND AUDITING (PART II)

Twenty-five lectures of two hours each, given on Wednesdays, from 6-8 p.m., commencing October 1st. Students will be required to submit home-work for correction and return.

Balance Sheet Valuations, Current and fixed assets and liabilities, Wasting Assets, Bonds and Debentures, Reserves. Capital Stock, classification of shares, no par value regulations forfeited stock, treasury stock. Earned, Capital and Distributable Surplus, Capital and Revenue Profits and Losses, Uncompleted Contracts, Dividends. Critical analysis of the Balance Sheets. Comparative Balance Sheets and Operating Statements. Need and purpose of audits. Fraud and Error in accounts. Types and characteristics of audits. Rights, duties, and responsibilities of auditors. Audit of operations, verification of Assets and Liabilities. Working Papers. Investigations. Reconstruction and reorganization of Companies; mergers and amalgamations, Holding Company and subsidiaries, minority interests. Consolidated Statements.

Lecturer.....Mr. C. K. Anderson
Demonstrators.....Mr. J. C. Newland and Mr. E. A. Lemieux

Passes from the examinations of Parts I and II of the Intermediate Accounting and Auditing course are pre-requisites to sitting for the Intermediate Examination in Accounting and Auditing of the Institute of Chartered Accountants of Quebec.

FINAL ACCOUNTING AND AUDITING (PART I)

Part I should be passed before the student takes Part II.

Fifty lectures of two hours each given Mondays and Thursdays, from 6 to 8 p.m., beginning September 29th. Students will be required to answer test papers and submit solutions for correction and return. 24 per cent of the final marks in the course will be awarded for homework and 76 per cent for the examinations taken at the end of the Part I course.

Part 1A.—Mondays—Branch accounts; Executorship and trustee accounts; Bankruptcy and liquidation accounts; auditing—powers, duties, responsibilities of auditors, legal provisions, internal check, audit programmes and procedures, auditors' reports, audit working papers.

Part 1B.—Thursdays—Holding companies and subsidiaries; reorganizations, mergers and amalgamations; Cost accounting—procedure, elements of cost—accounting for and control of materials, labour, and manufacturing expense; process and job cost systems; estimating cost systems, standard costs, variances, cost ratios, Budgetary control; static and flexible budgets.

Lecturers: (Mondays) ..... Mr. R. J. P. Dawson
(Thursdays) ..... Professor D. R. Patton

Demonstrators: (Mondays) ..... Mr. H. B. Savage
(Thursdays) ..... Mr. J. W. Dunsheath

FINAL ACCOUNTING AND AUDITING (PART II)

Fifty lectures of two hours each, given on Wednesdays and Fridays, from 6 to 8 p.m., commencing October 1st. Students will be required to answer test papers and submit solutions for correction and return. 24 per cent of the final marks in the course will be awarded on homework and 76 per cent for the examinations at the end of the course.

Part IIA.—Wednesdays—Systems and special considerations in the accounting and audit of the following: Banks, Insurance companies (fire, companies; lumbering companies; pulp and paper companies; chain and department stores; hospitals; clubs, hotels, distribution companies.

Part IIB.—Fridays—Criticism of operating statements and balance sheets; Reports and report writing; Investigations; Systems and considerations in the accounting and audit of special industries (additional to those covered under Part IIA); taxes and licenses; income and excess profits taxes.

Lecturers: (Wednesdays).....Mr. Russell
(Fridays).....Mr. Mellor
Demonstrators: (Wednesdays).....Mr. Smyth
(Fridays).....Mr. Knowles

INTERMEDIATE MATHEMATICS

Twenty lectures of 1 hour each on Algebra and twenty lectures of 1 hour each on Theory of Interest, given on Fridays, from 6 to 8 p.m., commencing October 3rd.

Arithmetic and geometric progressions; indices; logarithms; permutations and combinations; binonial theorem; theory of quadratic equations; approximations; graphs.

Lecturer.....Professor Herbert Tate

Text-book: H. Tate, Elementary Mathematical Analysis (Pitman).

FINAL MATHEMATICS

ELEMENTS OF ACTUARIAL SCIENCE

Twenty lectures of 1 hour each on Theory of Interest and 20 lectures of 1 hour each on Insurance, on Tuesdays, from 6 to 8 p.m., beginning September 30th.

The course embraces:—Simple and compound interest; annuities; the amortization schedule; straight-term, serial and annuity bonds; building and loan associations. Elementary Statistics.

Lecturer.....Professor Herbert Tate

Text-book: H. Tate, Mathematical Theory of Interest.

COMMERCIAL LAW

Twenty-five lectures of 2 hours each. On Tuesdays from 7-9 p.m., beginning September 30th.

Law of Contracts, Sale Agency, Partnership, Company Law, Negotiable Instruments, and Bankruptcy.

Lecturer.....Professor Vineberg

ECONOMICS

Course of 20 lectures, of 1 hour each, on Elementary Economics. On Fridays, from 6 to 7 p.m., beginning October 3rd.

Lecturer.....Professor Culliton

FUNDAMENTALS OF COST ACCOUNTING

Thirty lectures of one hour each given on Mondays from 8-9 p.m., commencing September 29th.

A knowledge of the fundamentals of Cost Accounting; the essential records and the methods of arriving at cost, including the following—Purposes of cost accounting; elements of cost; process cost systems; job cost systems; controlling accounts and the cost records; accounting for materials; material storage and consumption; perpetual inventories and stores control; valuation of materials; accounting for labor cost; wage systems; accounting for manufacturing expense; distribution of manufacturing expense to production; the cost to make and sell; sundry forms; monthly closing entries; preparations of operating and financial statements; cost reports.

Lecturer.....Mr. F. A. Rutherford

ADVANCED COST ACCOUNTING

Thirty lectures of one hour each, given on Mondays, from 6.30 to 7.30 p.m., commencing September 29th.

This course is designed for those having a fundamental knowledge of Cost Accounting principles and procedure. It covers advanced instructions in costing problems, records, and practices, and cost accounting in relation to inventories, budgetary control, and other devices of the various departments of a business, including the following—estimating cost systems; principles of Standard Costs; Standard Cost procedure; variances; cost ratios; budgetary control; static and variable budgets; differential cost analysis; special considerations and debatable methods; distribution and marketing costs; cost reports; graphic charts; machine accounting; current cost developments; actual working out of a job cost practice set.

Lecturer.....Mr. A. V. Harris

INDUSTRIAL MANAGEMENT

Thirty lectures of one hour each on Mondays from 7.45 to 8.45 p.m., commencing September 29th.

This course is designed to provide an over-all picture of the techniques involved in the management of an industrial establishment. It covers legal and internal forms of organization; location, construction and layout of plant; selection, installation and maintenance of machinery, equipment and factory services; purchasing and storekeeping; motion study and work simplification; safety and health; selection and training of employees; leadership and morale; job evolution, merit rating and employee compensation; development and engineering; maintenance and production control; industrial and public relations.

Lecturer.....Professor Rollit

INDUSTRIAL LAW

(Not being given in the session 1947-48.)

International industrial law (the International Labour Organization, etc.); fundamentals of Canadian constitutional law with special reference to the distribution of powers federal and provincial authorities in industrial and labour matters; fundamentals of the Quebec law of contracts; the contract of employment; work by estimate and contract; collective bargaining; minimum wage legislation; maximum hours of labour legislation; factory legislation; fundamentals of Quebec law of delicts and workmen's compensation; unemployment insurance; old age pensions, etc.; alien labour laws; status of trade unions; strikes; lock-outs; conspiracies in restraint of trade; Combines Investigation Act; industrial disputes; patents; trademarks; unfair competition; copyrights.

DUTIES OF SECRETARIES OF JOINT STOCK COMPANIES

Twenty lectures of one and one-half hours each, on Mondays and Thursdays at 6.30 p.m., commencing on Monday, September 29th.

The procedure and administration of Companies registered under the Companies Acts, from their promotion to their dissolution, with special attention to the work of the secretary and the practice involved, also the routine work of a secretary's office. Business management and office organization; Division of responsibility; General systems of control and internal check; Responsibilities and duties of the officers of a Company, Income Tax. Detailed study of: Notices of meetings; The constitution of a meeting, quorum, chairman; The powers and duties of a chairman; The general conduct of a meeting (discussion and order in debate); The agenda paper, adjournments and postponements: Motions and resolutions; amendments, previous questions and closure; Voting and proxies; Minutes. A study of: Fair comment and privilege in speeches, The Preservation of order at public meetings, Expulsion from meetings, Admission of the press to meetings, Newspaper reports of meetings. A detailed study of the Law, Conduct and Procedure at Company Meetings; Meetings of Directors; notice quorum, privilege in speeches, minutes, committees; Meetings of Shareholders, kinds of meetings, notices, chairman, proceedings at general meetings, resolutions, and amendments, voting, proxies, adjournments, minutes, privilege in speeches.

Lecturer . . . . . Mr. A. H. Westbury

ACCOUNTANCY DIPLOMA COURSES

GENERAL

Evening courses in Accountancy and allied subjects have been arranged by the University in co-operation with the Accountancy Associations of the Province of Quebec.

Students should plan their courses in accordance with the requirements of the diploma for which they are working, so that they will not have more than six class hours in a week.

In addition to the Association qualifying examinations the University gives an examination at the end of each course, and grants a certificate to candidates who successfully pass the examination.

Attendance

Students who are absent for more than one-eighth of the classes and do not have a proper written excuse, such as a medical certificate or a letter from their firm showing that their duties prevented attendance, will not be allowed to sit for the course examinations.

Pass Marks

In all courses the pass mark is sixty (60) per cent.

In Final Accounting and Auditing Part I and in Final Accounting and Auditing Part II, in which there are two examinations at the end of each part, an average pass mark of 60% on each set of two papers is accepted, with a minimum of 50% on each paper.

A student who obtains less than forty (40) per cent in any examination must repeat both the classes and the examinations of the course concerned.

A student who fails to pass an examination but obtains forty (40) per cent or more is required only to repeat the examinations of the course.

The examination results will be announced on or about June 15th.

THE INSTITUTE OF CHARTERED ACCOUNTANTS OF QUEBEC

The Institute of Chartered Accountants of Quebec conducts its own qualifying examinations but requires that candidates must have previously passed the University examinations for the courses.

Details of apprenticeship and other matters concerning the Institute may be obtained from:

Mrs. Ethel Dixon, Assistant Secretary, 430 Canada Cement Building.

The normal plan of studies for one who attempts to obtain a diploma requires five years paralleling the five years of apprenticeship in the office of a practising chartered accountant and might be arranged as follows:

First Year: Elements of Accounting (Mondays or Tuesdays).
Intermediate Mathematics (Fridays).

Second Year: Intermediate Accounting and Auditing, Part I (Wednesdays).
Final Mathematics (Tuesdays).
Duties of Secretaries of Joint Stock Companies (Mondays or Thursdays).

Third Year: Intermediate Accounting and Auditing, Part II (Wednesdays).

Commercial Law (Tuesdays).
Economics (Fridays).

Fourth Year: Final Accounting and Auditing, Part I (Mondays and Thursdays).

Fifth Year: Final Accounting and Auditing, Part II (Wednesdays and Fridays).

The fees for re-examination or examination outside Montreal are to be found on page 938.

All applications for re-examination or examination outside of Montreal must be made to the Director of the School of Commerce before March 25th, accompanied by the required fee, and including a statement as to the period in which the classes were taken.

The Institute of Chartered Accountants of Quebec has two sets of qualifying examinations: Intermediate Accounting and Auditing, and Final Accounting and Auditing. Both sets of examinations are held annually, about the beginning of December. These examinations are conducted by the Institute under its own regulations. Applications to sit for these examinations must be made to the Secretary of the Institute, with proof that the necessary requirements have been met.

The Intermediate Accounting and Auditing examinations consists of four papers and are normally taken after three years of evening study. Before sitting for these examinations, the candidate must have passed the following course examinations:—

Elements of Accounting.

Intermediate Accounting and Auditing Parts I and II.

Intermediate and Final Mathematics.

Commercial Law.

Economics.

Duties of Secretaries of Joint Stock Companies.

The Final Accounting and Auditing examinations consist of six papers and are taken only after all of the course examinations have been passed. Thus the additional courses are:

Final Accounting and Auditing (Parts I and II).

LICENTIATE IN ACCOUNTANCY — McGILL UNIVERSITY

A diploma of Licentiate in Accountancy of McGill University confers on its holder the right to become a member of the Institute of Chartered Accountants of Quebec, without further examinations, after attaining the age of twenty-one years and making payment of the usual fees and contributions.

Examinations leading to the diploma of Licentiate in Accounting will be held annually about the beginning of December. The examinations consist of six papers in Accounting and Auditing.

The examinations leading to the diploma of Licentiate in Accountancy may be taken by a Bachelor of Commerce of McGill University who has—

(a) Passed the following courses as part of his undergraduate work—

Four full courses in the Theory and Practice of Accounts
Business and Industrial Organization and Management (or approved equivalent 1947-48)
Commercial Law
Elements of Economics
Mathematics 23a and 23b.

(b) Served for a term of at least one year in the office of a practicing chartered accountant, if possible. If such service can not be obtained approval may be granted for such employment in accountancy as may be considered an acceptable substitute.

(c) Attended the evening courses in Final Accounting and Auditing—Parts I and II—and passed the course examinations held at the close of each course.

(d) Made written application to the Secretary of the School of Commerce to sit for the examinations, and has paid the necessary fee.

COST AND MANAGEMENT INSTITUTE

The Cost and Management Institute has three sets of qualifying examinations for its degree.

PRIMARY EXAMINATION

(a) Accounting I.
(b) Business Mathematics.

INTERMEDIATE EXAMINATION

(a) Accounting II.
(b) Fundamentals of Cost Accounting.

FINAL EXAMINATION

(a) Industrial Organization and Management.
(b) Industrial Legislation.
(c) Advanced Cost Accounting.
(d) Cost Accounting Thesis.

The courses in Elements of Accounting and Intermediate Accounting and Auditing, Parts I and II (pages 928, 929), cover the ground necessary for the Accounting I and II examinations. Special courses in Fundamentals of Cost Accounting, Industrial Management and Advanced Cost Accounting (page 932), have been arranged by the University in co-operation with the Institute.

Particulars may be obtained from Prof. D. R. Patton, Chairman of the Educational Committee of the Institute.

OTHER ASSOCIATIONS

The course "Duties of Secretaries of Joint Stock Companies" has been arranged in co-operation with the Chartered Institute of Secretaries. Honorary Secretary, Gordon Small, 460 St. Francois Xavier St., Montreal.

The General Accountants Association provides for two sets of examinations, (a) Intermediate and (b) Final, leading to its diploma. Secretary, John Rhodes, 4816 Dornal Ave., Montreal. Tel. EX. 1919.

Full information in respect of these organizations and their educational programmes may be obtained from their respective Secretaries.

FEES FOR THE EVENING COURSES

Students register and pay the required fee not later than the time of the second lecture of the course they are taking.

Elements of Accounting	$25.00
Accounting and Auditing (Intermediate) Part I	25.00
" " " " Part II	25.00
" " " (Final) Part I	40.00
" " " " Part II	40.00
Commercial Law	25.00
Mathematics (Intermediate)	20.00
" (Final)	20.00
Economics	15.00
Fundamentals of Cost Accounting	20.00
Advanced Cost Accounting	20.00
Industrial Management	20.00
Industrial Law	20.00
Duties of Secretaries of Joint Stock Companies	20.00

An extra charge payable with the fee, will be made in each course according to the amount of mimeographed material supplied to the students. Details will be available at the time of registration. The charge will not be more than two dollars ($2.00) in any course.

EXAMINATIONS

Students who reside outside of Montreal and district, and who wish to take the examinations, but who are not qualified by attendance at the course, pay a special examination fee, equivalent to about half the regular fee for the course, viz:—

Elements of Accounting	$10.00
Accounting and Auditing (Intermediate) Parts I or II	10.00
" " " (Pre-Final) Parts I or II	10.00
Commercial Law	10.00
Mathematics (Intermediate)	10.00
" (Final)	10.00
Economics	10.00

Fees for Re-examination

Elements of Accounting	$ 5.00
Intermediate Accounting: Part I	5.00
" " Part II	5.00
" Auditing	5.00
Pre-Final Examination Accounting and Auditing, Part I	10.00
Pre-Final Examination Accounting and Auditing, Part II	10.00
Commercial Law	5.00
Mathematics (Intermediate)	5.00
Mathematics (Final)	5.00
Economics	5.00

Fees for "Licentiate" Examination

Final Accounting and Auditing	$25.00
Supplemental in four papers	20.00
Supplemental in two papers	10.00

Evaluation and Registration of Certificates

Evaluation and registration of certificate exempting from the whole or part of the McGill Junior Matriculation Certificate.	$2.00

McGILL UNIVERSITY
MONTREAL

FACULTY OF ENGINEERING

1947 - 1948

McGILL UNIVERSITY

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McGILL UNIVERSITY

FACULTY OF ENGINEERING

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L.
Dean of the Faculty of Engineering....John J. O'Neill, M.Sc., Ph.D. (Yale), F.R.S.C.
Director of the School of Architecture...John Bland, B.Arch., A.R.I.B.A., A.M.T.P.I.
Comptroller and Executive Assistant to the Principal.....S. H. Dobell, D.S.O.
Bursar.....William Bentley, C.G.A.
Registrar.....T. H. Matthews, M.A.
University Librarian.....Richard Pennington, B.A.
Vice-Principal of Dawson College.....Carleton Craig, B.A., M.Eng.
Students Counsellor.....E. Clifford Knowles, M.A., B.D.
Senior Health Officer.....C. W. MacMillan, M.D., C.M., D.P.H.
Superintendent of Buildings.....P. W. MacFarlane, D.C.M.
Secretary of the Faculty.....R. DeL. French, B.Sc., C.E.

STANDING COMMITTEES OF THE FACULTY

ADMISSIONS

Professor Brown (Chairman), the Registrar, Professors Craig and Killam

ADMISSION TO ADVANCED STANDING FROM OTHER UNIVERSITIES

Professors Jamieson (*Chairman*), Bland, MacLean and Phillips

ADVISORY COMMITTEE ON THE SCHOOL OF ARCHITECTURE

Professor John Bland (*Chairman*), Messrs. E. I. Barott, H. L. Fetherstonhaugh, J. C. McDougall, R. A. Montgomery, and J. J. Perrault

CURRICULUM

Professors G. A. Wallace (*Chairman*), Arcand, Bland, Gill, O'Shaughnessy, Watson

EMPLOYMENT

Professors French (*Chairman*) and Christie

INVIGILATION

Professors O'Shaughnessy (*Chief*) and Schippel

REGISTRATION, STANDING AND PROMOTION

Professors MacEwan (*chairman*) Bland, Dodd, MacLean, Patten, Phillips and G. A. Wallace

RESEARCH

Professors Gillson (*Chairman*), Burr, Christie, Craig, Jamieson, MacEwan, O'Neill, Patten, Phillips, Robb, Rosenthall, Shaw and P. R. Wallace

SCHOLARSHIPS, BURSARIES AND LOANS

Professors MacLean (*Chairman*), Bland, Christie, Dodd, Phillips, Robb and Sproule

SUMMER ESSAY PRIZES—SECOND YEAR

Professors Dodd (*Chairman*), ———, Mennie, and G. A. Wallace

SUMMER ESSAY PRIZES—THIRD AND FOURTH YEARS

Professors Christie (*Chairman*), Bladon, French, MacEwan, Phillips and Robb

TIME TABLE

Professors Patten (*Chairman*), Bland and Killam

A complete list of the teaching staff of the University, including the Faculty of Engineering, is printed as a separate announcement which may be obtained from the Registrar's Office.

FACULTY OF ENGINEERING

ENTRANCE REQUIREMENTS

Candidates may qualify for admission to the Faculty of Engineering, including the School of Architecture, either by completing the first B.Sc. year of the Faculty of Arts and Science, including the pre-engineering course in Mathematics, or by passing the Senior School Certificate Examination in the following subjects:

(a) *Compulsory:*

English, Mathematics (three papers: Algebra, Trigonometry and Co-ordinate Geometry), Physics, Chemistry.

(b) *Elective:*

Any one of the following:—History, Biology, French, German, Greek, Latin, Spanish.

The pass-mark in each Senior School Certificate paper is 50%. The examinations are held in June and in September. Full details are given in the School Certificate Announcement, which may be obtained from the Registrar's Office.

For a list of other certificates recognized, see below.

Students intending to enter by means of first year B.Sc. are strongly recommended to take Intermediate Mathematies in their Junior School Certificate Examination. Failure to do so will not disqualify a student, but will entail additional work in this subject in the pre-engineering year.

ADMISSION REGULATIONS FOR STUDENTS ENTERING FROM THE SCIENCE DIVISION

1. A student who has passed in May or September all the subjects of the First Year of the B.Sc. course of the Faculty of Arts and Science may enter the Faculty of Engineering without conditions.

2. A student who has failed in any of the papers in Mathematics, Physics, or Chemistry (including Chemistry laboratory) will not be admitted.

3. A student who has failed in one subject only (other than Mathematics, Physics or Chemistry) may be admitted with a condition in this subject if, and only if, his average standing in Mathematics, Physics, and Chemistry is at least Second Class.

4. A student who has failed in more than one subject will not be admitted.

5. Students who after the May examinations are qualified to enter under Section 3 are strongly advised to try to remove their condition by writing the September supplemental before entering the Faculty of Engineering. Failure to remove a pre-engineering condition usually proves a serious handicap, and special regulations governing graduation apply to students who fail to remove such a condition after three attempts, including the initial failure.

APPLICATION FOR ADMISSION

Students desiring to enter the Faculty of Engineering must make applications on forms which may be obtained from the Registrar's Office. Completed forms must reach the Registrar before September 10th.

CERTIFICATES RECOGNIZED

Candidates will be admitted into the Faculty only if they show an adequate preparation and ability in mathematics.

With this condition, the following certificates will be accepted in lieu of the Senior School Certificate Examination, in so far as they meet the requirements:—Upper School Certificates of the Province of Ontario; Grade XII Certificates of the Provinces of Quebec, Nova Scotia, Manitoba, Alberta and Saskatchewan; the Third Year Certificates of the Prince of Wales College, P.E.I.; the Senior Matriculation Certificates of British Columbia and Newfoundland, and the Higher Certificates of the Oxford and Cambridge Schools Examination Board, the Oxford and Cambridge Local Examination Boards, the English Northern Universities Examinations Board, the Central Welsh Board, and of Durham, Bristol, and London Universities.

HEALTH SERVICE

Information concerning the University Health Service will be found in the General Information Pamphlet enclosed with this Announcement.

Those engaged in certain branches of mining and metallurgical work are subject by Provincial authorities and mining companies to regulations regarding physical fitness, with particular reference to chest conditions and sight. Students registering for courses in Mining or in Metallurgical Engineering are therefore required to undergo a special medical examination to determine their fitness. Convenient arrangements are made through the University Medical Officer for such examinations. While assisting students to determine their degree of fitness, the University assumes no responsibility for decisions made by those administering the regulations referred to above.

REGISTRATION, ATTENDANCE AND DISCIPLINE

REGISTRATION

All students entering the Faculty of Engineering most register in the Macdonald Engineering Building on Monday, September 29th, between the hours of 9.30 a.m. to 12.30 p.m., and 2.00 p.m. to 5.00 p.m., in accordance with instructions given below:

(1) Students entering the Faculty of Engineering for the first time must register in Room 74.

(2) All other students must register in Room 75.

Students registering after September 29th but not later than October 6th are required to pay a late registration fee of $5, which fee is increased to $10 for students registering after October 6th. This fee is not refunded except by authorization of Faculty. After October 15th, no student is admitted except by special permission of the Faculty.

ATTENDANCE

Students should realize that regular attendance at all scheduled exercises is in their own best interests and should make every effort to attend regularly. To allow as much freedom as is consistent with efficient teaching, the following regulations apply.

1. Attendance is not compulsory.

2. An instructor may keep records of attendance at laboratory exercises and the like, if he so desires, and is authorized to deal with cases of unsatisfactory attendance at such exercises.

3. Students who expect to be absent for three or more teaching days, for reasons other than illness or athletic events, shall give notice at the Dean's Office of the laboratory and draughting room exercises to be missed, with the names of the instructors concerned.

4. Students shall report, or have someone report for them, to the Dean's Office immediately upon the onset of an illness, no matter how trivial, which will occasion absence. Telephone notification is satisfactory.

5. Students who have been absent for any reason for three or more teaching days shall report to the Dean's Office immediately upon their return to classes.

6. Lectures begin at five minutes after the hour and end at five minutes before the hour. After the beginning of a lecture, students are not admitted, except by permission of the lecturer.

7. Abuse of these regulations will be dealt with as a matter of discipline by the Dean and Faculty.

DISCIPLINE

The University Regulations concerning discipline are administered by the several Faculties, subject, when necessary, to revision or confirmation by Senate.

FEES

The regular fees and special fees are given in the General Information Pamphlet included in this Announcement.

Special Fees in Engineering

Summer Schools.—Students who are eligible to attend Summer Schools in May or September as part of their regular course pay $10 as a caution money deposit. Students taking Summer Schools as an extra will pay $25 plus a caution money deposit of $10.

Dates for Payment

Fees are due and payable at the Bursar's Office between the hours of 9 a.m. to 1 p.m. and 2.30 to 4.30 p.m. (Saturday 9 a.m. to noon), on the following dates:

Monday, September 29th

to

Saturday, October 4th, inclusive

or if desired fees may be remitted by mail before the above dates. The second instalment of tuition fees is due and payable on February 1st. An additional $2 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the above paragraph.

Immediately after the prescribed dates for the payment of fees, the Bursar will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance at classes until such time as the fees are paid or satisfactory arrangements are made with the Bursar.

ADMISSION TO ADVANCED STANDING

Students of other colleges or universities who desire to enter any year in this Faculty other than the first, should apply in writting to the Dean of the Faculty not later than July 31 preceding the session it is desired to enter. Such application should state the course the student wishes to enter, and must be supported by an official transcript of the applicant's record at the institution he is leaving, which transcript should be sent directly from the registrar of such institution to the Dean of this Faculty.

Graduates of other faculties of McGill University desiring to proceed to the degree of B. Arch. or B. Eng., should consult the Dean of this Faculty for information regarding the regulations governing such procedure.

SCHOLARSHIPS, BURSARIES, PRIZES, MEDALS AND LOAN FUNDS

Details of Scholarships, Bursaries and Loan Funds will be found in the Announcement of Scholarships, Bursaries and Loan Funds which may be obtained from the Registrar's office.

DEGREES, EXAMINATIONS, AND SOCIETIES

DEGREES

Degrees conferred by the University upon such undergraduates of the Faculty as fulfill the conditions and pass the examinations hereinafter stated are: "Bachelor of Architecture" (B.Arch.), and "Bachelor of Engineering" (B.Eng.), mention being made in the diplomas of the latter of the particular course of study pursued.

Students who take the Bachelor of Engineering degree in one course may graduate in another course by attending one or more subsequent sessions and passing the prescribed additional examinations.

PRIVILEGES OF THE HOLDERS OF THESE DEGREES

Among the privileges enjoyed by graduates of the Faculty of Engineering the following may be specially mentioned:

(1) By a resolution of the Institution of Civil Engineers of Great Britain, the holders of the degree of B.Eng. who are desirous of becoming Associate Members of the Institution, may be exempted from Parts A and B of the examinations prescribed for admission to the Institution.

(2) By the Dominion Lands Surveys Act, any graduate in civil or mining engineering may have his term of apprenticeship for the Dominion Land Surveyor's certificate shortened from three years to one.

(3) Holders of the degree of B.Eng. are admitted to practice in Quebec, upon graduation, provided they register with the Corporation of Professional Engineers of Quebec upon entering the Faculty. Students entering the Faculty should therefore obtain the necessary application forms from the Dean's office, complete them and return them to that office.

(4) The School of Architecture is recognized by the Royal Institute of British Architects, and the instruction given meets the requirements of the Board of Architectural Education of that body. Students who obtain the degree of B. Arch. are exempted from the final examination for the associateship of the Royal Institute excepting in the subject of professional practice, in which they are required to take a paper set by the Institute's examiners. On passing this they are eligible for candidature as Associate R.I.B.A.

(5) The Province of Quebec Association of Architects admits holders of the degree of B.Arch. to membership, and thereby to practice in the Province, on passing an examination in professional practice and after spending one year in the office of a member of the Association.

EXAMINATIONS

(See also Regulations concerning Standing and Promotion.)

1. Final examinations are held in all lecture subjects. Class examinations, for which credit may be given in the sessional standing, are held at the option of the Professor or at the request of the Faculty.

2. Students who have failed in one or more subjects of the curriculum, except in cases where they are not permitted to register in a subsequent session or as noted in paragraph 3, are required to attempt to make good their standing prior to their registration by writing:

(*a*) the regular supplemental examinations held immediately before the opening of the session, or

(*b*) the final examinations in a subsequent session.

3. Students who have failed at the completion of a session in subjects totalling not more than 150 marks, may, if given permission by Faculty, register in a subsequent session as conditioned students. (See paragraph 2, page 1080).

4. The pass standard in examinations in which the candidate has already failed twice is 60 percent. A conditioned student, unless excused by Faculty, who does not present himself for a sessional or supplemental examination before applying for registration, will be regarded as having failed in that examination and will be required to make 60 percent at his next attempt.

5. Special supplemental examinations are not held. Deferred supplemental examinations are given only under exceptional circumstances and by authority of Faculty.

6. Failures in drafting and laboratory subjects may under certain conditions be made good by attending special classes during the late afternoons of the first two months of the following session. No student is permitted to attend these schools unless he has made at least 30 percent in the subject of the school. These classes must be completed and the results reported to Faculty on or before December 1st.

7. Classes:

Class I	80–100 percent.
Class II	65– 79 percent.
Class III	50– 64 percent.

ENGINEERING SOCIETIES

1. Upon entrance into the Faculty, all undergraduate students automatically become members of the Engineering Undergraduates Society.

2. The students also support the Society of the Phi Epsilon Alpha. The members of this society are selected from graduates and undergraduates in engineering, and its object is to encourage high standards of character and scholarship.

3. Students in all departments of engineering are strongly recommended to become student members of the Engineering Institute of Canada, for which a fee of $3 is required. They are then entitled to the Journal of the Institute, to the use of the Institute's building, 2050 Mansfield Street, and to attend the weekly meetings.

Students are invited to compete for the prizes which are offered by the Institute.

4. Students in Mining Engineering and in Metallurgical Engineering are strongly recommended to become members of the McGill Mining and Metallurgical Society, which, although a student body, is affiliated with the Canadian Institute of Mining and Metallurgy, the headquarters of which are in Montreal. Members of this Society receive the Monthly Bulletin of the Transactions of the Institute free, and are entitled to attend meetings and to compete for prizes offered.

5. Students in Architecture are recommended to become student members of the Province of Quebec Association of Architects, for which a fee of $1.00 is required. They are then entitled to use the library of the Association, 620 Cathcart Street.

COURSES OF INSTRUCTION

Instruction in this Faculty is designed to afford thorough training of a practical as well as theoretical nature in the following branches:

I—Architecture
II—Chemical Engineering
III—Civil Engineering
IV—Electrical Engineering
V—Mechanical Engineering
VI—Metallurgical Engineering
VII—Mining Engineering
VIII—Engineering Physics

A note concerning graduate courses follows the list of undergraduate courses in each department. Details are given in the Announcement of the Faculty of Graduate Studies and Research.

CURRICULUM

The curriculum as laid down in the following pages may be changed from time to time, as deemed advisable by Faculty, and is in no case binding beyond the session covered by this calendar announcement.

The course for a degree in any branch of Engineering is one of four years, and for a degree in Architecture the course is a five-year one.

The degree in Engineering will not be conferred upon any candidate until he has passed the prescribed examinations of his course, and has submitted satisfactory evidence to Faculty of having had six months of experience in practical engineering work. Similar regulations apply to the degree in Architecture. The conditions regarding practical work in the School of Architecture are set forth under the heading of Summer Work, Course 35, on page 1039. Forms, obtainable from the Dean's Office, must be signed by the employer and returned on or before 12 noon, Saturday, October 18th, 1947.

The first two years of the Engineering courses are devoted largely to mathematics, mechanics, physics, chemistry and drawing, as it is necessary that students in these courses should master the general principles underlying scientific work before commencing professional subjects.

In certain courses, students are required to attend Summer Schools, following the completion of the work of the session in the First, Second, and Third Years; for details, see page 1033.

The regular work of the session 1947-48 will begin on October 1st, 1947, and end on May 26th, 1948.

ENGINEERING COURSES

The following schedules set out the various courses as it is expected they will be given during the session to which this calendar applies, but the Faculty of Engineering reserves its right to alter them if it deems desirable. Notice of such alteration is posted for the information of students.

The subjects of instruction in the First Year of the Engineering Courses, and the number of hours per week devoted to each, are as follows:

FIRST YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Elementary Physical Chemistry and Laboratory	51	2	2	1	1
Mechanical Drawing	340	..	..	6	6
Engineering Problems	80	..	..	3	3
History of Science	135	1	1	..	..
Algebra	192	..	3	..	..
Calculus	193	3	3	..	..
Mechanics	194	2	2	..	..
Analytic Geometry	195	3	..	..	..
Physics and Laboratory	311,312	3	3	2	2
Surveying	345	..	2	..	..
*Surveying Field Work	347	..	..	..	..
Total hours		14	16	12	12

*This subject is counted as part of the Second Year Curriculum, but the work is done in the four weeks immediately following the close of the First Year examinations, and is taken by all students except those intending to register in Chemical Engineering in their Second Year. (See page 1033.)

Any undergraduate student of the First Year, who at the close of the first term has failed to obtain an average of 33 percent in calculus, chemistry, mechanics, analytic geometry and physics, may be required to withdraw from the Faculty.

Any other student of the First, or any subsequent Year, whose record is found to be unsatisfactory, may at any time be required to withdraw from the Faculty.

See Regulations governing "Promotion," pages 1079 to 1082.

The subjects of instruction in the Second Year of the engineering courses, for students who intend to enter the general civil or the mechanical engineering course, and the number of hours per week devoted to each are as follows:

SECOND YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Descriptive Geometry	341A	1	..	2	..
Engineering Reports	136	1	1	..	..
Mapping	348	..	..	6	..
Materials of Engineering	81	..	..	..	..
Calculus and Spherical Trigonometry	198	2	2	..	..
Mechanical Drawing	344	..	..	3	3
Mechanics	83	2	2	2	2
Mechanics of Machines	218	..	1	..	3
General Geology	141	2	2	3	2
Physics and Laboratory	315, 316	2	2	3	3
Surveying	346	2	..	..	..
*Surveying Field Work	347	..	..	..	..
Summer Essay	132	..	..	..	..
Total hours		12	10	19	13

*Surveying Field Work is done in the four weeks immediately following the close of the First Year examinations in April (about April 25th) (see page 1033). In the case of students entering from other Universities this work should be done in a special Summer School before entering the Second Year (see page 1033).

See Regulations governing "Promotion," pages 1079 to 1082.

1. ARCHITECTURE

The course for the degree of Bachelor of Architecture extends over five years and aims to provide a basic training in the building arts and sciences with particular reference to planning and the structural and mechanical design of buildings. The first year is the regular first year of the Engineering Faculty with certain options and is mainly devoted to preparatory mathematics and drawing. During the second, third and fourth years, the subjects of building construction, structural and mechanical design, history of Western art and architecture, economics, elements of architecture and planning are taken. Courses in social observation,

acoustics, and electrical services of buildings are given to the combined third and fourth years in alternate years. The work of the fifth year is largely architectural design and professional practice.

FIRST YEAR

As in other Engineering courses (see page 1015) with special summer work for students entering the second year (see page 1033).

Students may take Architectural Drawing and Elements of Design (8) in place of Mechanical Drawing (340), and in place of Elementary Physical Chemistry and Laboratory (51) students may take an approved course in the Faculty of Arts and Science.

SECOND YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Elements of Design	9	..	..	3	3
Architectural Essay	31	..	..	..	..
Building Construction I	18	1	1	6	12
Calculus	198	2	2	..	..
Descriptive Geometry	341A	1	..	2	..
Freehand Drawing	27	..	..	3	3
History of Ancient and Classical Architecture	14	2	2	..	..
History of Art (Sculpture, Painting)	5	1	1	..	..
Mapping	348	..	..	6	..
Materials of Engineering	81	..	..	..	..
Mechanics	83	2	2	2	2
Surveying	346	2	..	..	..
*Surveying Fieldwork	347	..	..	..	..
Summer Report	35	..	..	..	..
Total hours		11	8	22	20

*Surveying Fieldwork is done in the four weeks immediately following the close of the First Year Examinations in April. In the case of students entering from other universities this work should be done in Summer Schools before entering the Second Year, as shown on page 1033.

See Regulations governing "Promotion," pages 1079 to 1082.

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Aesthetics and Theory of Design	6	1	1	..	..
Architectural Essay	32	..	..	..	..
Building Construction II	19	1	1	..	..
Design A	1	..	..	15	6
Economics	171	..	2	..	..
Elements of Structural Design	90	..	2	..	2
Foundations	89	1	1	..	3
Freehand Drawing	28	..	..	3	3
*History of Mediaeval Architecture	15	2	2	..	..
Mechanical Engineering	226	2	..	..	..
Planning	7	2	2	..	..
*Social Observation	23	..	..	2	2
Strength of Materials and Lab.	87, 88	2	2	..	3
Summer Report and Sketching School	36, 26	..	..	..	..
Total hours		11	13	20	19

*Given to the combined Third and Fourth Years in alternate years.

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
*Acoustics of Buildings	321	2	..	..	..
Architectural Essay	33	..	..	..	..
Design B	2	1	1	15	18
Design Workshop	29	..	..	3	3
Engineering Economics	172	2	..	..	..
*Electrical Services	129	..	2	..	..
Heating and Ventilation of Buildings	247	1	1	..	3
*History of Renaissance Architecture	16	2	2	..	..
Sanitary Science	82	2	..	..	..
Strength of Materials	95A	1	..	3	..
Summer Report and Sketching School	37, 26	..	..	..	..
Total hours		11	13	21	24

*Given to the combined Third and Fourth Years in alternate years.

FIFTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Architectural Essay	34	..	..	..	..
Design C	3	..	..	24	27
Design Seminar	4	..	..	2	..
Design Workshop	30	..	..	3	..
History of Modern Architecture	17	2	2	..	..
Professional Practice	24	..	2	..	..
Specifications	25	2	2	..	..
Summer Report and Sketching School	38, 26	..	..	..	..
Total hours		4	6	29	27

II. CHEMICAL ENGINEERING

The aim of this Course is to provide a broad fundamental training, which, when supplemented by practical experience, will make the engineer competent to design and operate industrial plants and to understand the processes.

Part of the time in the Second Year is devoted to Chemistry in addition to general engineering subjects. In the Third Year, time is divided between Chemistry and Engineering, and Chemical Engineering topics are introduced. The Fourth Year is devoted mostly to Chemistry and Chemical Engineering, including a course in unit operations.

Students must attend a Summer School in Elementary Quantitative Analysis at the end of the Second Year.

FIRST YEAR

As in other Engineering courses (see page 1015), except that students do not take the Summer School in Surveying Field Work (347).

SECOND YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Engineering Problems	64	1	..	2	..
Engineering Reports	136	1	1	..	..
Calculus and Spherical Trigonometry	198	2	2	..	..
Materials of Engineering	81	..	..	..	..
Mechanics	83	2	2	2	2
Physics and Laboratory	315, 316	2	2	3	3
Elem. Organic Chem. and Laboratory	56, 57	3	3	3	3
Inorganic Qualitative Analysis and Laboratory	53	2	..	6	..
Inorganic Quantitative Analysis and Laboratory	54	..	2	..	9
*Inorganic Quantitative Analysis and Laboratory	55	..	..	..	..
Summer Essay	132	..	..	..	..
Total hours		13	12	16	17

*Summer School extends over a period of four weeks at the end of the second year course.

See Regulations governing "Promotion," pages 1079 to 1082.

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
Chemistry and Technology of High Polymers (optional)	62	1	1	..	..
Metallurgy of Iron and Steel	261	1	1	..	..
Mechanical Eng. and Lab.	226, 228	2	2	3	3
Thermodynamics	73	2	2	..	..
Engineering Reports (optional)	137	1	1	..	..
*Mineralogy	142A	2	2	..	..
*Determinative Mineralogy	143A	..	..	3	..
*Algebra and Differential Equations	201	2	2	..	..
Strength of Materials and Lab.	87, 88	2	2	..	3
Advanced Organic Chem. and Lab.	65	2	2	6	6
Chemical Technology	68	2	2	..	..
Physical Chemistry	66	1	1	..	..
Physical Chemistry Laboratory	66A	..	..	3	3
Elementary Chemical Engineering	63	2	2	..	..
Summer Essay	133	..	..	..	..
Total hours		18 to 20	20 to 22	12 to 15	15

*Algebra and Differential Equations (201) is alternative to the combined subjects 142A and 143A.

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Electrochemistry	70	2	..	..	..
Electrometallurgy (optional)	275	..	2	..	..
Colloid Chemistry	75	1	1	..	..
Industrial Relations (optional)	258	2	..	..	..
Industrial Administration (optional)	254	..	1	..	..
Elem. of Electrical Eng. and Lab.	111, 112	2	2	3	3
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Thermodynamics	76A	2	2	..	..
Advanced Physical Chemistry	67	2	1	..	..
Advanced Physical Chemistry Laboratory	67A	..	..	3	3
Chemical Engineering (A)	77	3	3	..	..
Chemical Engineering (B)	79	3	3	..	..
Chemical Engineering Laboratory	78	..	..	6	6
Summer Essay	..	..	..	..	..
Total hours		18 to 20	13 to 16	12	12

III. CIVIL ENGINEERING

(A) The regular course of study is designed to emphasize the fundamental principles of mechanics, strength of materials, design of structures, and hydraulics, at the same time affording an opportunity of applying these principles to practical problems ranging widely over the field of civil engineering. A sound foundation is laid for future specialization. The outlook of the student is broadened by courses in Mechanical and in Electrical Engineering. In the designing courses special attention is given to the interpretation and critical discussion of specifications and to the economic principles involved. Students are recommended to obtain practical experience during the summer vacations, and are especially recommended to spend at least one vacation in a drafting office.

First and Second Years

As in other Engineering courses (see pages 1015 and 1016), with additional Summer School for students entering Third Year (see page 1034).

THIRD YEAR REGULAR COURSE

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
Foundations	89	1	1	..	3
Engineering Reports (optional)	137	1	1	..	..
Hydraulics and Laboratory	97, 98	2	..	3	..
*Map Projections (alternate)	351	1	..	2	..
Mechanical Engineering and Lab.	226, 228	2	2	3	3
Mechanics	86	2	..	..	..
Railway and Highway Engineering	92	2	1	6	3
*Sanitary Science (alternate)	82	1	..	..	..
Strength of Materials and Lab.	87, 88	2	2	..	3
Elementary Structural Design	90	..	2	..	2
Surveying	353	2	2	..	..
Surveying Field Work	354	..	..	..	..
Summer Essay	133	..	..	..	..
Total hours		15 or 16	12 or 13	12 or 14	14

*Map Projections (351) is alternative with Sanitary Science (82).

FOURTH YEAR—REGULAR COURSE

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Elements of Elec. Eng. and Lab.	111, 112	2	2	3	3
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Industrial Relations (optional)	258	2	..	..	..
Industrial Administration (optional)	254	..	1	..	..
Geodesy and Laboratory	359, 360	..	2	..	3
*Geodetic Field Work	361	..	..	..	..
Strength of Materials	95	1	2	3	..
Theory of Structures	94	1	2	3	6
Bridge Design	96	2	2	6	6
Hydraulic Machines	99	..	2	..	..
Municipal Engineering	101	4	..	3	..
Waste Disposal	103	1	..	..	..
Summer Essay	134	..	..	..	..
†Foundations and Reinforced Concrete (alternate)	104	..	2	..	3
†Photogrammetry and Lab. (alternate)	362	..	2	..	3
Total hours		14 or 16	13 or 14	18	18

*See page 1055. †Alternate with Geodesy and Laboratory (1054).

(B) The courses of study in the applied mechanics option are designed to give rather more emphasis to the field of applied mechanics than is given in the regular civil engineering course. A broad mathematical foundation is provided, permitting a more intensive treatment of technical phases of applied mechanics, including fluid mechanics and vibrations. The work of the regular course in Railway and Highway Engineering, Geodesy, and Municipal Engineering is omitted, but all the basic engineering of the regular course is retained. The training is designed for those students who wish to fit themselves for positions in the field of advanced structural design, and for graduate and research work in this and allied fields.

A student electing this option may revert to the regular civil engineering course at the end of his second year without making up the regular work missed, providing his standing in all other respects is satisfactory. Reversion at the end of the third year involves making up certain of the work missed. Students who make only low pass standing will be required to revert.

Registration for this option is restricted to students whose general background, and standing attained in the first year, particularly in mathematics, indicate that they can profit by it. Students intending to register for this option should consult with the Chairman of the Department and obtain his approval of such registration prior to September 15th.

SECOND YEAR—APPLIED MECHANICS OPTION

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First	Second	First	Second
Materials of Engineering	81	..	..	..	..
Mechanics	83	2	2	2	2
Summer Essay	132	..	..	..	..
Engineering Reports	136	1	1	..	..
Geology	141	2	2	3	2
Problems in Mathematics and Physics	197	..	..	3	3
Advanced Calculus	199a	3	2	..	..
Differential Equations	199b	1	2	..	..
Physics and Laboratory	315, 316	2	2	3	3
Descriptive Geometry	341A	1	..	2	..
Surveying	346	2	..	..	..
Surveying Fieldwork	347	..	..	..	..
Mapping	349A	..	..	3	..
Total hours		14	11	16	10

*Surveying Field Work is done in the four weeks immediately following the close of the First Year examinations in April (see page 1033). In the case of students entering from other Universities this work should be done in a special Summer School before entering the Second Year (see page 1033).

THIRD YEAR—APPLIED MECHANICS OPTION

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
Engineering Reports (optional)	137	1	1	..	..
Hydraulics and Laboratory	97, 98	2	..	3	..
Mechanical Engineering and Lab.	226, 228	2	2	3	3
Foundations (alternate)	89	1	1	..	3
Thermodynamics (alternate)	73	2	2	..	..
Mechanics	86	2	..	..	..
Strength of Materials and Laboratory	87, 88	2	2	..	3
Physical Metallurgy	266	1	..	2	..
Nomography	196A	1	..	3	..
Theory of Functions	203	1	1	1	1
Fluid Mechanics	105	..	3	..	..*
*Structural Design	90	..	2	..	2
Summer Essay	133	..	..	..	..
Total hours		13	14	12	12

*Interchange between years

FOURTH YEAR—APPLIED MECHANICS OPTION

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Theory of Structures	94	1	2	3	6
Hydraulic Machines	99	..	2	..	..
Bridge Design	96A	2	2	6	3
Electrical Engineering and Laboratory	111, 112	2	2	3	3
Strength of Materials	95	1	2	3	..
Dynamics and Vibrations	106	..	3	..	..*
Total hours		9	14	15	12

*Interchange between years.

IV. ELECTRICAL ENGINEERING

The Third Year of the Electrical Engineering course provides the student with a broad engineering training. Courses in mechanical engineering, thermodynamics, and strength of materials occupy a large place in the curriculum, although the greatest emphasis is placed on the study of the principles of Electrical Engineering.

The course in Electrical Engineering theory includes a study of electro-magnetism and of the electric circuit, followed by an analysis of the theory and characteristics of direct current machinery. A study is made of alternating current flow in single-phase and polyphase circuits, and a short introduction to the theory of thermionic tubes and their application is given. This training is applied in the laboratory and in the solution of problems. Courses in differential equations and in electron physics prepare the student for the electrical circuit theory and electrical communication courses of the Fourth Year.

The Fourth Year is devoted almost entirely to electrical studies in the two main fields of Power Engineering and Communication Engineering.

Courses in the power engineering field cover the generation, transmission and distribution of electric power; direct and alternating current phenomena; electrical machinery; electric lighting; electrical measurement and electro-chemistry.

Courses in communication engineering cover the theory and applications of thermionic tubes, transmission theory and radio engineering. These are supplemented by laboratory work in audio- and radio-frequency measurements and by design, construction and testing of communication apparatus.

When a student enters the fourth year he may elect to specialize in communication engineering, in which case he will omit courses (97) and (98) Hydraulics and Laboratory, in the first term and course (123) Power Control and Protection, in the second term and take in their place extra work in communication engineering. Extra laboratory instruction and a course in radio design will replace six hours per week of time usually included in courses (118) Electrical Engineering Laboratory and (122) Electrical Design and Problems.

FIRST YEAR

As in other Engineering courses. (See page 1015.)

SECOND YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Engineering Reports	136	1	1	..	..
Mapping	348	..	..	6	..
Materials of Engineering	81	..	..	..	..
Calculus and Spherical Trigonometry	198	2	2	..	..
Mechanical Drawing	344	..	..	3	3
Mechanics	83	2	2	2	2
Mechanics of Machines	218	..	1	..	3
General Geology	141	2	2	3	2
Physics and Laboratory	315, 316	2	2	3	3
Electrical Engineering	110	..	2	..	3
Surveying	346	2	..	..	..
*Surveying Field Work	347	..	..	..	..
Summer Essay	132	..	..	..	..
Total hours per week		11	12	17	16

*Surveying Field Work is done in the four weeks immediately following the close of the first year examinations in April (see page 1033). In the case of students entering from other universities this work should be done in a special Summer School before entering the second year (see page 1033).

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Differential Equations	201	2	2	..	..
Economics	171	..	2	..	..
Electrical Engineering	113	4	3	..	..
Electrical Eng. Laboratory	114	..	..	12	9
Engineering Reports (optional)	137	1	1	..	..
Machine Design	225	2	2	..	..
Mechanical Engineering and Lab.	226, 228	2	2	3	3
Mechanics	86	2	..	..	..
Thermodynamics	229	2	2	..	..
Strength of Materials and Lab.	87, 88	2	2	..	3
Physics	318	2	..	..	..
Thermionic Tube Theory	125	..	2	..	3
Summer Essay	133	..	..	..	..
Total hours		18 or 19	17 or 18	15	18

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Electrical Engineering	117	4	4	..	..
Electrical Eng. Laboratory	118	..	..	9P-6C	12P-6C
Electric Light and Power Distribution	120	2	..	..	..
Radio Design and Problems	121	..	..	..	3C
Electrical Design	122	1	1P	3	3P
Power Control and Protection	123	..	3P	..	..
Elec. Measurements and Laboratory	124	2	..	2	3
Communication Eng. (Wire)	126	2	..	..	..
Radio Engineering	127	2C	3C	..	..
Radio Engineering Laboratory	128	..	..	6C	6C
Industrial Electronics	130	..	2	..	..
Radio-frequency Lines and Networks	131	..	2C	..	..
Hydraulics and Laboratory	97, 98	2P	..	3P	..
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Summer Essay	134	..	..	..	..
*Industrial Relations (Optional)	158	2	..	..	..
*Industrial Administration (Optional)	254	..	1	..	..
Power option students will also take one of the following;					
Hydraulic Machines	99	..	2P	..	..
Radio-frequency Lines and Networks	131	..	2P	..	..
Total hours per week	P	16	13	17	18
	C	16	12	17	18

P—Power Option.
C—Communications Option.
*Not included in the year's credits.

V. MECHANICAL ENGINEERING

In the fourth year there are three options: 1st, Industrial Engineering; 2nd, Thermodynamics; and 3rd, Mechanics of Machines. In preparation for one of these courses, undergraduates entering the third year elect to take either Accounting or Mechanics of Machines; Accounting being prerequisite to Industrial Engineering, and Mechanics of Machines prerequisite to the other two. If postgraduate work in aeronautics is contemplated, in addition to the first option (Mechanics of Machines), Calculus is taken in the Third Year and Strength of Materials in the Fourth Year, if the timetable will permit.

The subjects of instruction in this Department are of interest to students who are likely to take up work connected with:

(a) The engineering of production, including industrial engineering; (b) steam engineering; (c) internal combustion engines; (d) power plant engineering; (e) heating and ventilation; (f) aeronautics and aerodynamics.

Instruction is given during the Third and Fourth Years in mechanical engineering applied to power installations and prime movers. This work is supplementary to thermodynamics, mechanics of machines and machine design, and leads to power plant design, industrial plant design and works organization.

Workshop practice instruction is given in the Third and Fourth Years to prepare for that practical experience which every mechanical engineer must obtain for himself.

The course in thermodynamics deals with the theory of heat engines, including graphical and experimental work.

Arrangements are made for occasional visits to power plants and factories of importance.

First and Second Years

As in other Engineering courses (see pages 1015 and 1016), with additional Summer School for students entering Third Year. (See page 1033.)

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
Elements of Elec. Eng. and Lab.	111, 112	2	2	3	3
Engineering Reports (optional)	137	1	1	..	..
Industrial Engineering	237	2	..	..	..
Machine Design	225	2	2	..	..
Mechanical Drawing	231	..	..	3	3
Mechanical Eng. and Laboratory	227, 228	3	3	3	3
Mechanics	86	2	..	..	..
Physical Metallurgy	266	1	..	2	..
Shopwork	236	..	..	3	3
Strength of Materials and Lab.	87, 88	2	2	..	3
Elements of Structural Design	90	..	2	..	2
Thermodynamics	229	2	2	..	..
Summer School	233	..	..	..	..
Summer Essay	133	..	..	..	..
Accounting	238	1	1	3	3
or					
Mechanics of Machines	224	2	2	1	1
**Differential Equations (optional)	201	2	2	..	..
Total hours	A	17 or 18	16 or 17	17	20
	M	19 or 21	17 or 20	15	18

A—Accounting option.
M—Mechanics of Machines option.

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Designing	241	..	..	3	3
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Experimental Engineering	257	1	1	..	..
Heating and Vent. of Buildings	247	1	1	..	..
Hydraulics and Laboratory	97, 98	2	..	3	..
Hydraulic Machines	99	..	2	..	..
Machine Design	242	2	2	..	..
Power Plant Design	244	1	1	3	3
Shopwork	252	..	..	3	3
Summer Essay	134	..	..	..	..
and					
Industrial Administration	254	..	1	..	3
Industrial Engineering	253	2	2	3	3
Industrial Relations	258	2	..	..	..
Mech. Eng. Laboratory	249A	..	..	6	6
or					
Thermodynamics	251	2	2	..	..
Industrial Administration	254	..	1	..	3
Industrial Relations	258	2	..	..	..
Mech. Eng. Laboratory	249	..	..	9	9
or					
Mech. Eng. Laboratory	249	..	..	9	9
*Mechanics of Machines	240	2	2	1	1
Thermodynamics	251	2	2	..	..
**Strength of Materials (optional)	95B	..	2	..	..
Total hours		14 or 16	12 or 14	21 or 22	19 or 21

*Prerequisite Mechanics of Machines 224.
**Students intending to specialize later in aerodynamics take optional courses in Differential Equations (201) and Strength of Materials (95A).

VI. METALLURGICAL ENGINEERING

The course of instruction provides training in the chemical, physical and engineering subjects that form a basis for metallurgical engineering. In the later years, the various branches of theoretical and practical metallurgy are studied, together with the allied subjects of mineralogy, assaying and mineral dressing.

The course is designed for students who expect to be engaged in mineral dressing, the smelting or refining of metals, the production of iron or steel, the melting and casting of metals and alloys, or in engineering work in which the physical properties and heat-treatment of metals and alloys are of fundamental importance.

In the Second Year instruction is given in mathematics, mechanics, physics, materials of engineering, organic chemistry, inorganic qualitative and quantitative analysis, and metallurgical problems.

In the Third Year instruction is given in economics, physical chemistry, chemical thermodynamics, mineralogy, mineral dressing, metallurgy, mechanical engineering, strength of materials, and machine design.

A Metallurgical Field School is held after the April examinations of the Third Year. This school visits metallurgical plants and studies the design and operation of each.

Students are expected to work in a metallurgical plant during the summer before entering the Fourth Year, and must have experience in metallurgical works before graduation.

In the Fourth Year instruction is given in chemistry, engineering law, economics, hydraulics, metallurgy, electrometallurgy, metallography, electrical engineering, metallurgical designing and mineral dressing.

Laboratory accommodation is provided for graduate students who wish to do advanced work in metallurgy for the M.Sc. or the M.Eng. degree.

Please refer to page 1008 for regulations regarding physical examination.

FIRST YEAR

As in other Engineering courses. (See page 1015.)

SECOND YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Metallurgical Problems	264	..	1	..	2
Engineering Reports	136	1	1	..	..
Calculus and Spherical Trigonometry	198	2	2	..	..
Materials of Engineering	81	..	..	..	..
Mechanics	83	2	2	2	2
Physics and Laboratory	315, 316	2	2	3	3
Elem. Organic Chemistry and Laboratory	56, 57	3	3	3	3
Inorganic Qualitative Analysis and Laboratory	53	2	..	6	..
Inorganic Quantitative Analysis and Laboratory	54	..	2	..	9
*Surveying Field School	347	..	..	..	..
Summer Essay	132	..	..	..	..
Total Hours		12	13	14	19

*Surveying Field Work is done in the four weeks immediately following the close of the First Year examinations in April (about April 25th) (see page1033). In the case of students entering from other Universities this work should be done in a special Summer School before entering the Second Year (see page 1033).

See Regulations governing "Promotion," pages 1079 to 1082.

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
Thermodynamics	76	2	2	..	..
Physical Chemistry	66	1	1	..	..
Metallurgical Laboratory	262	..	..	..	3
Engineering Reports (optional)	137	1	1	..	..
Mechanical Engineering and Lab.	226, 228	2	2	3	3
Strength of Materials and Laboratory	87, 88	2	2	..	3
Machine Design	225	2	2	..	..
Metallurgical Problems	265	..	..	2	2
Metallurgy of Iron and Steel	261	1	1	..	..
Mineral Dressing	292	2	2	..	..
Inorganic Chemical Technology	68A	2	..	..	..
Mineralogy	142A	2	2	..	..
Determinative Mineralogy	143A	..	..	3	..
Metallurgical Analysis	279	..	..	3	..
*Fire Assaying and Laboratory	263	..	..	..	..
**Differential Equations	201	2	2	..	..
Summer Essay	133	..	..	..	..
Total hours		16 or 19	16 or 19	11	11

*Fire Assaying and Laboratory (263), is taken in the two weeks prior to the opening of the session in the Third or Fourth Years.
**Differential Equations (201) may be taken as an extra subject.

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Advanced Physical Chemistry	67	2	1	..	..
Advanced Metallurgy	272	2	2	..	..
Electrochemistry	70	2	..	..	..
Electrometallurgy	275	..	2	..	..
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Industrial Relations (optional)	258	2	..	..	..
Industrial Administration (optional)	254	..	1	..	..
General Metallurgy	271	2	2	..	..
Hydraulics and Laboratory	97, 98	2	..	3	..
Inorganic Chem. Technology	68A	2	..	..	..
Metallurgical Thesis	274	..	..	3	9
Metallurgical Colloquium	277	..	1	..	..
Metallurgical Problems and Design	278	..	..	3	5
Metallurgical Analysis	279	..	..	3	..
Metallography and Laboratory	280, 281	2	2	..	3
Mineral Dressing and Laboratory	300, 305	2	1	3	..
*Metallurgical Field School	268	..	..	..	..
Summer Essay	134	..	..	..	..
Total hours		19 or 21	12 or 13	15	17

*Metallurgical Field School (268) is taken at the end of the Third Year. See page 1034

VII. MINING ENGINEERING

In the Second Year instruction is given in calculus, mechanics, physics, geology, mineralogy, surveying, materials of engineering, inorganic qualitative and quantitative analysis and mapping.

The Third Year is largely devoted to applied mechanics, structural design, electrical engineering, mechanical engineering, surveying, petrology, applied geology and geophysics, but courses of special interest to Mining Engineers are introduced in mineral dressing, elementary mining and metallurgy, and mining engineering problems

In the Fourth Year instruction is given in mining, mineral dressing, economic geology and metallurgy, including nearly three full days per week in laboratories and drafting room. In the second term each student prepares a thesis on an experimental investigation. and works on problems in mine design.

A Field School in mining, mineral dressing and geology is held between the Third and Fourth Years, beginning immediately after the close of the April examinations. Students are taken on a trip to some important mining district where mines and plants are studied.

Facilities are available for graduate students who wish to do advanced work in mining or mineral dressing, and the Department possesses three Research Fellowships open to graduates who show ability. (See Scholarships Announcement.)

Refer to page 1008 for regulations regarding physical examination.

FIRST YEAR

As in other Engineering courses (See page 1015)

SECOND YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Engineering Reports	136	1	1	..	..
Mapping	349	..	..	..	3
Materials of Engineering	81	..	..	..	..
Calculus and Spherical Trigometry	198	2	2	..	..
Descriptive Geometry	341A	1	..	2	..
Mechanics	83	2	2	2	2
Physics and Laboratory	315, 316	2	2	3	3
Inorganic Qualitative Analysis and Laboratory	53	2	..	6	..
Inorganic Quantitative Analysis and Laboratory	71	..	1	..	6
General Geology	141	2	2	3	2
Mineralogy	142	2	2	..	..
Determinative Mineralogy	143	..	..	2	2
Surveying	346	2	..	..	..
*Surveying Field Work	347	..	..	..	..
Summer Essay	132	..	..	..	..
Total hours		16	12	18	18

*Surveying Field Work is done in the four weeks immediately following the close of the First Year examinations in April (about April 25th) (see page 1033). In the case of students entering from other Universities this work should be done in a special Summer School before entering the Second Year (see page 1033).

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Economics	171	..	2	..	..
Electrical Engineering and Laboratory	111, 112	2	2	3	3
Structural and Field Geology	147	2	..	3	..
Mine Mapping	350	..	..	3	..
Mechanical Engineering and Lab.	226, 228	2	2	3	3
Metallurgy of Iron and Steel	261	1	1	..	..
Mineral Dressing	292	2	2	..	..
Mining Methods	291	2	..	..	..
Petrology	146	..	2	..	3
Applied Geophysics	320	1	1	..	..
Strength of Materials and Laboratory	87, 88	2	2	..	3
Elements of Structural Design	90	..	1	..	3
Metallurgical Laboratory	262	..	..	3	..
Mining Engineering Problems	295	..	..	2	2
Surveying	352	2	..	..	..
Surveying Field Work	354	..	..	..	..
Summer Essay	133	..	..	..	..
Fire Assaying and Laboratory	263	..	..	..	..
Total hours		16	15	17	17

NOTE:—The course in fine assaying (263) is taken in the two weeks prior to the opening of the session in the third or fourth years.

*See page 1034.

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Engineering Economics	172	2	..	..	..
Engineering Law	175	1	1	..	..
Geology and Natural Resources of Canada	149	..	2	..	3
Hydraulics and Laboratory	97, 98	2	..	3	..
Industrial Administration (optional)	254	..	1	..	..
Industrial Relations (optional)	258	2	..	..	..
Metallurgical Analysis	279	..	..	3	..
Metallurgical Calculations	265	..	..	2	2
Metallurgical Laboratory	262	..	..	..	3
Metallurgy, General	271	2	2	..	..
Mine Design	298	..	..	3	6
Mineral Dressing	300	2	1	..	..
Mineral Dress., Lab. and Thesis	307	..	..	3	7
Mining Colloquium	301	..	1	..	..
Mining Engineering	297	2	3	..	..
Mine Mapping	293	..	..	2	..
Ore Deposits	148	2	2	..	3
Mining Field School	294	..	..	..	..
Summer Essay	134	..	..	..	..
Total hours		13 or 15	12 or 13	16	24

NOTE:—Surveying Field Work, between the Second and Third Years. See page 1034 Mining Field School at end of Third Year. See page 1073.

VIII. ENGINEERING PHYSICS

The courses leading to the degree of B.Eng. in Engineering Physics are planned for those students who wish to fit themselves for positions in

the fields of design, development, and research. These courses are at present selected for students specializing primarily in Electrical Engineering and Electrical Physics, but the group of courses as a whole places emphasis on a considerable range of Physics and Mathematics.

Since the opportunities in the fields of design, development, and research are in general limited to those who show a marked aptitude for technical work, registration in Engineering Physics is restricted to those students who have completed First Year Engineering with high second-class standing or better. Moreover, students who do not maintain an average of 65% are not allowed to continue in Engineering Physics. They may, however, transfer to Electrical Engineering at the end of any year if they have obtained a minimum of 50% in all courses of that year.

Alternative groups of courses associated closely with other branches of Engineering may be offered when the demand for Engineering Physicists in these branches is assured.

FIRST YEAR

As in other Engineering courses (See page 1015).

SECOND YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Materials of Engineering	81	..	..	..	..
Mechanics	83	2	2	2	2
Electrical Engineering	110	..	2	..	3
Summer Essay	132	..	..	..	..
Engineering Reports	136	1	1	..	..
Economics	171	..	2	..	..
Nomography	196	1	..	..	..
Problems in Mathematics and Physics	197	..	..	3	3
Advanced Calculus	199a	3	2	..	..
Differential Equations	199b	1	2	..	..
Physics and Laboratory	315, 316	2	2	3	3
Mechanical Drawing	343	..	..	3	..
Surveying Fieldwork	347	..	..	..	..
Advanced Heat	434	2	2	..	..
Total hours		12	15	11	11

THIRD YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Electrical Engineering	113	4	3	..	..
Electrical Eng. Laboratory	114A	..	..	9	6
Strength of Materials and Laboratory	87, 88	2	2	..	3
Thermionic Tube Theory	125	..	2	..	3
Theory of Functions	203	1	1	1	..
Statics, Dynamics of a Particle and Rigid Dynamics	431	3	3	..	..
Advanced Light	445	2	1	3	3
Electron Physics	318	2	..	..	..
Properties of Matter	432	..	1	..	..
Summer Essay	133	..	..	..	..
Total hours		14	13	13	16

FOURTH YEAR

SUBJECT	Subject Number	Lecture hours per week		Laboratory, etc., hours per week	
		First term	Second term	First term	Second term
Electrical Engineering	117A	4	..	..	..
Electrical Eng. Laboratory	118A	..	..	3	..
Communication Eng. (Wire)	126	2	..	..	..
Radio Engineering	127	2	3	..	..
Radio Engineering Lab.	128	..	..	6	6
Mathematical Physics	204, 441	3	3	..	..
Electrical Measurements	433	2	2	4	4
Atomic and Electron Physics and Acoustics	443	2	2	3	3
Electromagnetic Theory	442	1	1	..	..
Summer Essay	134	..	..	..	..
Total hours		16	11	16	13

SUMMER SCHOOLS

Undergraduates are required to attend Summer Schools as specified below. These are held immediately after the April sessional examinations, and the work is set forth in detail under the subject numbers referred to. See note under fees, page 1010.

Except as noted, classes are expected to begin on or about April 25th and close about May 24th.

REGULAR SUMMER SCHOOLS

COURSE	Students entering Second Year		Students entering Third Year		Students entering Fourth Year (and Fifth Year Architecture)	
	Subject No.	Page	Subject No.	Page	Subject No.	Page
Architecture	347	1049	† 26	1040	† 26	1040
Chemical Engineering	...	...	55	1045	...	...
Civil Engineering	347	1049	354	1052	361	1055
Electrical Engineering	347	1049	...	...	...	...
Mechanical Engineering	347	1094	*233	1066	...	...
Metallurgical Engineering	347	1049	263	1070	268	1071
Mining Engineering	347	1049	354	1052	294	1073

*This school will commence on September 2nd, 1947, extend over a period of four weeks and be held with the Special Summer Schools. See pars. (a), (b) and (c) below.

†A Sketching School is taken by students entering the third, fourth and fifth years in Architecture. It will commence on September 15th, 1947, and extend over a period of nine days.

Special Summer Schools

As it is seldom practicable for students admitted to advanced standing in McGill University from other colleges to attend the May Summer School preceding the work of the year to which they are admitted, the following arrangements have been made for such students, but it must be understood that, except as noted in the table above, they apply only to students who have not previously been in attendance in the Faculty of Engineering.

(a) Students entering the Second Year from other universities, except in Chemical Engineering, are required to attend a special Summer School in Surveying which opens on September 2nd, 1947, preceding the work of the Session. Additional work may be required in the following year, if necessary, to cover the course.

(b) Students entering the Third Year of the course in Mechanical Engineering will be required to attend a Summer School in Mechanical Drawing and Machine Shop Work extending over a period of four weeks, commencing September 2nd, 1947.

(c) Students entering the Third Year in the courses in Civil and in Mining Engineering and the Fourth Year in Civil Engineering are required to attend a Special Summer School in Surveying which opens on September 2nd, 1947.

(d) Students entering the Second Year or any subsequent year in the School of Architecture must submit evidence satisfactory to the Director that they have done work equivalent to that of the regular scheduled Summer Schools.

(e) Students entering the Fourth Year in the courses in Mining Engineering are required to submit evidence that they have had practical experience in mining work at least equivalent in extent to the work done in the regular Summer Schools in these courses, and should by correspondence in the preceding spring secure the approval of the Chairman of the Department concerned of the work which they propose to offer in place of the regular summer work.

(f) Students in Mining and Metallurgical Engineering are required to attend a Summer School in Fire Assaying (263) prior to entering either their third or fourth year. This Summer School will commence on September 17, 1947.

Students in Metallurgical Engineering are required to attend Metallurgical Field School (268) at the end of their Third year.

SUMMER WORK AND SUMMER ESSAYS

Students in Engineering are required to submit to the Faculty evidence of having had at least six months of experience in practical engineering work before receiving their degrees (see page 1014). Evidence of such employment must be submitted on forms obtainable at the Dean's Office, to be signed by the employer, and handed in at the office not later than 12 noon, Saturday, October 18th, 1947.

A similar regulation applies to students in Architecture.

GENERAL REQUIREMENTS

Essays are regarded as an important part of the curriculum and a high standard is exacted. They are judged on their subject matter, on their literary style and on the evidence they show of thoughful observation and preparation.

The most suitable subject for an essay is a topic drawn from the experience of the student during his summer work, but a similar topic connected with any engineering, scientific or industrial work with which he is familar is acceptable. Students should take advantage of every opportunity during their summer engagements to gather material for their essays.

No essay compiled entirely from matter already published will be accepted, unless ACCOMPANIED BY a letter of approval from the Chairman of his Department, or in the case of students of the first year and of the second year in the general course, from the Chairman of the Department naturally concerned with the topic upon which the student proposes to write. Such approval is not usually given, unless the proposed essay will serve a really useful purpose by bringing together important information otherwise difficult of access.

Data from books and from other sources, may, however, be used or even quoted verbatim in reasonable quantity, provided acknowledgement is made and direct quotations are indicated. Thanks for assistance, advice, drawings, photographs and the like received by the writer from others should also be given under "Acknowledgements".

Essays should be from 2,000 to 5,000 words in length. The student is therefore strongly advised to select a topic which can be treated with reasonable completeness within these limits.

Unless absolutely essential, it is not desirable to accompany essays with samples and specimens. Careful writing and adequate illustration will usually make them unnecessary.

Essays must be TYPEWRITTEN on one side only of 8½ x 11-inch white paper of good quality and bound in the standard cover.

The schedule by which essays are ranked is as follows:

A — PHYSICAL PRESENTATION.

Title, name, course and year on cover: table of contents or index: list of illustrations, drawings, maps, etc.: suitability of illustrations, etc.: neatness. — 15 to 25 MARKS.

B — CONTENT.

Suitability: originality: evidence of accurate observation: authority and accuracy. — 30 to 40 MARKS.

C — ORGANIZATION.

Acknowledgements: headings and sub-headings: tables: references: bibliography. — 15 MARKS.

D — COMPOSITION.

Grammar: spelling: phraseology: style and interest: clarity and lucidity. — 30 MARKS.

After ranking, essays, except those to be considered for prizes or those which must be rewritten, are returned to the writers through the Engineering Library. Essays considered for prizes, but not awarded any, are also returned in the same manner, but at a later date. Prize-winning essays become the property of the Engineering Undergraduates' Society and are filed for permanent reference in the Engineering Library. Any student who does not wish to surrender his essay should, therefore, indicate by letter ATTACHED THERETO that it is not to be considered for a prize.

Students are encouraged to submit their essays to the Engineering Institute of Canada, to the Canadian Institute of Mining and Metallurgy, to the Institute of Radio Engineers or to the Society of Chemical Industry in competition for prizes offered by these institutes. A student wishing to enter one of these competitions should so indicate by letter ATTACHED TO his essay.

Summer essays must be handed in not later than 5 p.m. Wednesday, October 1st, 1947. Students in Engineering will hand in essays at the Engineering Library, students in Architecture at the office of the Director of the School of Architecture.

STUDENTS IN ARCHITECTURE

During each summer vacation students are required to obtain at least six weeks' practical experience satisfactory to the Faculty and to prepare a report of about 3,000 words upon their summer employment. Rules governing these reports are as stated for essays.

In addition, students entering the various years are required to fulfil the following requirements:

Third, Fourth and Fifth Years

Obtain a satisfactory standing in the special design schools held in the first two weeks in September.

Obtain a satisfactory standing at two Sketching School Sessions during the course.

STUDENTS IN ENGINEERING

Second Year

132. Students entering the Second Year must submit an essay. The essay, which should be approximately 2,000 words in length, must be illustrated and must conform to the requirements for essays stated above.

Students who are not engaged during the summer in engineering, scientific or industrial work that would be a suitable subject for an essay, may write on one of the following subjects: (1) The Engineer's Place in Society; (2) Engineering Societies and their Functions; (3) Licensing of Engineers; (4) The Engineer and Collective Bargaining.

Third Year

133. Students entering the Third Year must submit an essay, preferably on engineering work in which they have been engaged. Essays must conform to the requirements stated.

Students who are not engaged during the summer in suitable engineering, scientific or industrial work are advised themselves to choose a subject for an essay, in consultation with the Chairman of their Department, or they may write on one of the following:

Chemical Engineering.—(1) The Refining of Petroleum; (2) The Solvay Process for Soda Manufacturing; (3) Manufacture of Contact Sulphuric Acid; (4) Synthetic Resins; (5) Paints or Varnishes.

Civil Engineering.—(1) Historical Development of Trussed Frameworks; (2) Historical Development of Reinforced Concrete; (3) Ancient and Modern Water Supplies.

Electrical Engineering.—The Application of Electric Power to Industrial Establishments.

Mechanical Engineering.—(1) Powdered Fuel for Power Production; (2) Pulp and Paper Manufacture; (3) Shop Management.

Metallurgical Engineering.—(1) Roasting Sulphide Concentrates; (2) Reverberatory Copper Smelting; (3) Heat Treatment of Steel.

Mining Engineering.—(1) Explosives Used in Mining; (2) Hoisting from Mines; (3) Mucking and Transportation in Mines; (4) The Cyanide Process for Extraction of Minerals from Ores.

Fourth Year

134. Students entering the Fourth Year are required to submit an essay, preferably on engineering work in which they have been engaged. Students who are not engaged in suitable work may write on one of the following subjects, or preferably on an engineering subject approved by the Chairman of their Department.

Chemical Engineering.—(1) Nitrogen Fixation Industries; (2) Kraft Pulp, or Sulphite Pulp, or Viscose Rayon; (3) Economic Factors in Chemical Industries; (4) Electrolytic Caustic and Chlorine; (5) Instruments; (6) Automatic Control of Process Variables.

Civil Engineering.—(1) Welding of Structural Steel; (2) High-Early-Strength Concrete; (3) Aerial Surveying; (4) Small-Town Sewage Disposal Plants; (5) A Short History of Soil Mechanics.

Electrical Engineering.—(1) Applications of Electricity to any Particular Branch of Industry, or to Industry in General; (2) Applications of Thermionic Tubes to Electrical Communication and to Industry; (3) Electrification of Railways; (4) The Insulation of Underground Cables or of Overhead Lines; (5) The Magnetic Properties of Iron and its Alloys.

Mechanical Engineering.—(1) Power Costs; (2) Central Station Heating; (3) Methods of Increasing Production in Manufacturing; (4) Diesel-driven Motor Buses.

Metallurgical Engineering.—(1) The Treatment, Uses and Disposal of Gases from Metallurgical Furnaces; (2) The Economic Use of Electric Power in Metallurgical Furnaces; (3) Corrosion-resisting Alloy Steels; (4) Electro-metallurgical Industries.

Mining Engineering.—(1) Prospecting and Exploration of Mineral Deposits; (2) Mine Drainage; (3) The Flotation Process for Ore Concentration; (4) Compressed Air and its Application to Mining; (5) Mineral Production and its Effect on Industrial Development.

Essays must conform in all respects to the requirements stated on pages 1034 and 1035.

COURSES OF LECTURES IN ENGINEERING

The descriptions of courses, schedule of hours per week, names of lecturers, etc., given in the summaries which follow are those which it is expected will obtain during the session to which this calendar applies, but the Faculty of Engineering reserves its right to alter or cancel them. Notices of such cancellations or alterations are posted for the information of students.

SCHOOL OF ARCHITECTURE

Director and Associate Professor.....JOHN BLAND
Associate Professor.....HAROLD SPENCE-SALES
Sessional Lecturers.....WATSON BALHARRIE, ENRICO DE PIERRO, L. AUSTIN JOHNSON, ARTHUR LISMER
Sessional Instructor.....GORDON WEBBER
Advisory Committee (see page 1005).

FIRST YEAR

8. ARCHITECTURAL DRAWING AND ELEMENTS OF DESIGN. Descriptive geometry; orthographic projection; simple pictorial representation; perspective by various methods; shades and shadows; interpenetrations; developments; lettering. Basic visual elements, line, form, colour, texture. Practical experiments in water colour, tempera, dyes and inks. Given only upon the demand of four or more students in place of Mechanical Drawing 340.
2 lectures and 6 hours problems per week, session.
PROFESSOR BLAND AND MR. WEBBER

SECOND YEAR

5. HISTORY OF ART. This course is a chronological survey of the changes in painting and sculpture from prehistoric times to the present day. Related to Course 27. Illustrated notes are required.
1 lecture per week, session.....DR. LISMER

9. ELEMENTS OF DESIGN. Applications of colour and texture experiments to renderings of planes in space. Designing and producing three dimensional tactile structures and the applications of visual aids in the presentation of architectural projects.
3 hours per week, first term. 6 hours per week, second term.
.....MR. WEBBER

14. HISTORY OF ANCIENT AND CLASSICAL ARCHITECTURE. Antique building forms in relation to purpose, materials, technique of construction, traditions and climate; antique architecture as related to activities of life as expressed in literature and other records. Related to Course 31.
2 lectures per week, session.....PROFESSOR BLAND

18. BUILDING CONSTRUCTION I. Building materials and methods of construction according to good local practice; wood framing and masonry;

preparation of detail drawings from plates and design of one or two simple structures. 1 lecture and 6 hours problems per week, first term; 1 lecture and 9 hours problems per week, second term,

MR. BALHARRIE AND MR. DE PIERRO

Text-books: Frame Construction Details (Nat. Lumber Mfg. Ass'n); Gay and Parker, Materials and Methods of Building Construction (Wiley); Graf, Data Sheets (Reinhold); Ramsey and Sleeper, Architectural Graphic Standards (Wiley).

27. FREEHAND DRAWING AND MODELLING. Drawing, painting and modelling and experiments in the forms and techniques of historic style. Related to Course 5. Classes held in the Art Association.
3 hours per week, session.....DR. LISMER

31. ARCHITECTURAL ESSAY. Students are required to prepare a paper during the session on some aspect of historical architecture. It may be based upon references in literature or other available library records, or it may be a study of technique, material, structure or function in historic buildings as revealed by available records. Related to Courses 14, 15, 16 and 17.....PROFESSOR BLAND

35. SUMMER REPORT. Before a degree is granted a student must have had at least six months' experience satisfactory to Faculty (see page 1034), and have attended at least two Sketching Schools. During each summer the student must prepare a report of about 3,000 words upon his summer employment.

In addition, for students entering the Third, Fourth and Fifth Years a design school is held in the first three weeks in September.

THIRD YEAR

DESIGN OF BUILDINGS. Detail studies of two or three buildings are made each session in the Third, Fourth and Fifth Years. Students are required to investigate the main elements of a given project, considering function, historical and contemporary counterparts, structure, materials, details of finish, mechanical and other equipment, as well as aesthetic disciplines and enrichment. The method of consideration is usually as follows: (a) Written report with illustrations upon the proposed building outlining its purpose, materials and construction; (b) Preliminary plans, sections and elevations; (c) Structural layout; (d) Graphical abstractions of the building in order to clarify the pattern of the structure, the mass, the texture and colours of materials and the surface; (e) Working drawings of a part of the building; (f) Final presentation drawings or scale models with details of special features. Occasional short problems are introduced to develop speed in design and presentation. There are weekly conferences for discussion of the current project. Members of the Advisory Committee are invited to judge the students' work.

1A. Design, Class A (Summer School). Residential, industrial and educational buildings. First three weeks in September before the commencement of the Third Year. . Mr. Balharrie and Mr. de Pierro

1. Design, Class A. Continuation of Course 1A. 15 hours per week, first term; 6 hours per week, second term.
Mr. Balharrie and Mr. de Pierro

6. Aesthetics and Theory of Design. This course describes the foundation of aesthetics and the character of design, form, colour, taste and their relationship to nature and the arts in industry and in modern life. Related to Course 28. Illustrated notes are required.
1 lecture per week, session . . . . . Dr. Lismer

7. Planning. Elements of town planning; surveys of selected districts of Montreal. The course consists of environmental studies directed at the wider understanding of architectural and civic design
2 lectures per week, session . . . . . Professor Spence-Sales

15. History of Mediaeval Architecture. Development of Christian architecture in Europe; effect of Roman, Byzantine and Northern influences in spirit and in technical skills; concept of architecture based upon purpose, material techniques, climate and traditions. Course is related to Courses 28 and 32.
2 lectures per week, session . . . . . Professor Bland

19. Building Construction II. Various structural systems and their architectural significance; construction and finish of walls, floors, ceilings and roofs; provision for mechanical services; bylaw requirements. Detailed working drawings of parts of design projects are prepared Course related to Course 1.
1 lecture per week, session . . . . . Mr. Balharrie

Text-books: Huntingdon, Building Construction (Wiley); National Building Code (N.R.C.).

23. Social Observation for Architects. Growth and pattern of cities. The sociological basis of town planning. Given in alternate years.
1 lecture and 2 hours conference . . . . . Professor Dawson

26 Sketching School. Students are required to attend two Sketching Schools during their course. The School is usually conducted out of town so that students are given the opportunity of examining and making graphic records of an unfamiliar district. About 10 days; opening date for 1947-48, September 15th, 1947 . . . . . Dr. Lismer and Mr. Webber

28. Freehand Drawing and Modelling. Drawing, painting and modelling with practical experiments in design form. Related to Course 6 Continuation of Course 27. Classes held in the Art Association.
3 hours per week, session . . . . . Dr. Lismer

32. ARCHITECTURAL ESSAY. Related to Course 15. Continuation of Course 31 ..... PROFESSOR BLAND

36. SUMMER WORK. See Course 35.

FOURTH YEAR

2A. DESIGN, CLASS B. (SUMMER SCHOOL). Recreation, transportation and hospital buildings (see Third Year Design of Buildings). First three weeks in September before the commencement of the Fourth Year.

PROFESSOR SPENCE-SALES

2. DESIGN, CLASS B. Continuation of Course 2A.

1 lecture and 15 hours problems per week, session

PROFESSOR SPENCE-SALES

16. HISTORY OF RENAISSANCE ARCHITECTURE. Architecture of the 15th, 16th, 17th and 18th centuries in Europe and America; concept of architecture is further developed. Related to Course 33.

2 lectures per week, Session ..... PROFESSOR BLAND

29. DESIGN WORKSHOP. Study of light in relationship to architecture, model-making for light experiments, photographic recordings, photograms. Design of structures to illustrate objects in spatial relationship, solid, linear and transparent objects.

3 hours per week, session ..... MR. WEBBER

33. ARCHITECTURAL ESSAY. Related to Course 16. Continuation of Course 32 ..... PROFESSOR BLAND

37. SUMMER REPORT. See Course 35.

FIFTH YEAR

3A. DESIGN, CLASS C (SUMMER SCHOOL). Selected problems (see Third Year Design of Buildings). First three weeks in September before the commencement of the Fifth Year ..... PROFESSOR SPENCE-SALES

3. DESIGN, CLASS C. Continuation of Course 3A. Complex buildings or groups of buildings usually including a housing problem and a commercial or a public building. Diploma design for graduation is done in the second term. The subject is selected by the student but must be presented for approval before January 3rd each year; presentation must be in the form of a written report and preliminary plans.

1 lecture and 24 hours problems, session ..... PROFESSOR SPENCE-SALES

4. DESIGN SEMINAR. Seminar for investigating physiological and psychological requirements in building.

Scientists working in physiology, psychology, and other fields are now able to provide definite information about human environmental needs. Technicians have made possible many new methods to meet these needs

The architect should have an understanding of both needs and methods, in order to satisfy modern building problems. One week, a specific need will be studied. The following week, experts will be brought in to answer the questions arising out of the previous week's study.

2 hours per week, first term ..... PROFESSOR BLAND

17. HISTORY OF MODERN ARCHITECTURE. Development of materials and methods of calculation in the 19th century; new types of buildings; changed environment resulting from the Industrial Revolution, the architectural revivals and the development of modern architecture; new purposes, new materials and new attitudes. Course related to Course 34.

2 lectures per week, session ..... PROFESSOR BLAND

24. PROFESSIONAL PRACTICE. Essential characteristics and more important phases of the architect's work; relationship to the owner; responsibility; business conduct; fees; supervision; arbitration; issuing of certificates; competitions; standard forms of contracts; payment; liens; servitudes; public health; building regulations.

2 lectures per week, second term ..... MR. JOHNSON

25. SPECIFICATIONS. Principles of writing architectural specifications; discussion of actual specifications; essays on common building materials; practice in specifying for common trades.

2 lectures per week, session ..... MR. BALHARRIE

Text-Books: Sleeper, Architectural Specifications (Wiley); National Building Code (King's Printer); N.H.A. Specifications; Master Specifications (Home Owners' Loan Corp.).

30. DESIGN WORKSHOP. Special experiments in which the individual student presents a subject as a model, such as a theatre stage, a small house, furniture, mural, pamphlet, etc.

3 hours per week, first term ..... MR. WEBBER

34. ARCHITECTURAL ESSAY. Related to Course 17. Continuation of Course 33 ..... PROFESSOR BLAND

38. SUMMER REPORT. See Course 35.

DEPARTMENT OF CHEMICAL ENGINEERING

Professor ..... J. B. PHILLIPS
Lecturer ..... W. GAUVIN
Sessional Lecturers ..... S. G. MASON, N. EPSTEIN
Demonstrators ..... S. H. RUSSELL, P. ADELSTEIN

SECOND YEAR

64. ENGINEERING PROBLEMS. Applications of physical and chemical principles to some fundamental problems in Chemical Engineering.

1 lecture and 2 hours problems per week, first term.

PROFESSOR PHILLIPS and MR. EPSTEIN

THIRD YEAR

63. ELEMENTARY CHEMICAL ENGINEERING. Stoichiometry, with applications in combustion and some manufacturing processes and correlated with Course 68; thermodynamic properties of systems; physical chemistry of solutions; hydrostatics and fluid flow.

2 lectures per week, session.....DR. GAUVIN

Text-book: Arnold, Chemical Engineering Stoichiometry (The Author).

68. CHEMICAL TECHNOLOGY. Technology of chemical industries: acids; alkalis; gases; organic synthesis and pressure processes; petroleum products; wood pulp and synthetic fibres; materials of construction; flow-sheets; economic principles.

2 lectures per week, session.....PROFESSOR PHILLIPS

Reference books: Shreve, Chemical Process Industries (McGraw-Hill). Badger and Baker, Inorganic Chemical Technology (McGraw-Hill).

68A. INORGANIC CHEMICAL TECHNOLOGY. First term of Course 68.

2 lectures per week, first term.....PROFESSOR PHILLIPS

73. THERMODYNAMICS. The first law, including enthalpy balances, heats of reaction, flow processes; the second law, including thermodynamic cycles, elementary chemical reaction equilibria; charts.

2 lectures per week, session.....DR. MASON

Text-book: Dodge, Chemical Engineering Thermodynamics (McGraw-Hill).

FOURTH YEAR

76A. THERMODYNAMICS. Advanced treatment of thermodynamics applied in Chemical Engineering.

2 lectures per week, session.....DR. MASON

Text-book: Dodge, Chemical Engineering Thermodynamics (McGraw-Hill).

77. CHEMICAL ENGINEERING (A). Study of unit operations based on thermodynamics: flow of gases and liquids; heat transfer; evaporation; with assigned problems.

3 lectures per week, session.....PROFESSOR PHILLIPS

Text-book: Walker, Lewis, McAdams and Gilliland, Principles of Chemical Engineering (McGraw-Hill).

78. Chemical Engineering Laboratory. Experiments in the topics discussed in Courses 77 and 79, with reports; supervised problem periods in related work.

6 hours per week, session.... Professor Phillips and Demonstrators

79. Chemical Engineering (B). Study of unit operations based on diffusional processes: absorption; extraction; distillation; drying; humidification; filtration; economic balance principles; applications in process design; with assigned problems.

3 lectures per week, session..... Professor Phillips

Text-book: as for 77.

POST-GRADUATE COURSES

Graduates in Chemical Engineering may proceed, if their work has been of sufficiently high standard, to the Master's degree in Chemistry or in Chemical Engineering. See Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF CHEMISTRY

Professors	O. Maass W. H. Hatcher C. B. Purves C. A. Winkler
Associate Professors	J. H. Mennie W. H. Barnes R. V. V. Nicholls
Lecturers	A. S. Ross R. K. Holcomb J. M. Holmes W. G. Bowen G. H. Bjorklund
Demonstrators	To be appointed.

First Year

51. Elementary Physical Chemistry. A survey of physical chemical theory and experimental methods with problems to illustrate physico-chemical principles and provide practice in the handling of experimental data and dimensional units.

2 lectures and 1 hour problems per week, session.

Professor Maass and Dr. Holmes

Text-book: Maass and Steacie, Introduction to the Principles of Physical Chemistry, Second Edition (Wiley).

Second Year

53. Inorganic Qualitative Analysis and Laboratory (Arts and Science 23a.) Reactions of electrolytes in solution in terms of ionization theory: ionization constant; solubility product constant; common ion effect; formation and dissolution of precipitates; complex ions; amphoteric electrolytes; hydrolysis; systematic separation and identification of the common ions.

Text-book: Curtman, Qualitative Chemical Analysis (Macmillan).

54. Inorganic Quantitative Analysis and Laboratory (Arts and Science 23b.) Theory of gravimetric and volumetric precipitation; theory of indicators and acid-base titrations; oxidation-reduction methods; simple gravimetric determinations; typical volumetric procedures including neutralization, precipitation and oxidation-reduction methods. All samples are solids which must be weighed and brought into solution by the student.

2 lectures and 9 hours laboratory per week, second term.

Professor Mennie

Text-book: Mennie, Laboratory Instructions in Quantitative Analysis.

55. Inorganic Quantitative Analysis Laboratory. Theory of oxidation-reduction reactions; theory of electrolytic analysis; theory of buffer action and applications in systematic analysis; further volumetric and gravimetric procedures and the sytematic analysis of limestone and brass. Four weeks summer school. (See page 1033)

Professor Mennie

Text-book: Kolthoff and Sandell, Quantitative Inorganic Analysis (Macmillan).

56. Organic Chemistry (Arts and Science 22). Hydro-carbons, aliphatic, alicyclic and benzenoid; organic halides; alcohols; ethers; aldehydes and ketones including 1,4-addition and tautomerism; acids; esters including Claisen condensation, Michael condensation and malonic ester condensation; acid chlorides, anhydrides and amides; amines; cyanides and isocyanides; compounds containing sulphur; organo-metallic compounds; cis-trans isomerism; optical isomerism; electro-valence, covalence and coordinate-covalence.

2 lectures per week, session..... Dr. Bowen and Dr. Bjorklund

Text-book: Caldwell, Organic Chemistry (Houghton Mifflin).

57. Organic Chemistry Laboratory (Arts and Science 22). Experiments illustrative of Course 56.

3 hours per week, session..... Dr. Bowen and Dr. Bjorklund

Text-book: Nicholls, An Introduction to Practical Organic Chemistry (Pitman).

THIRD YEAR

62. CHEMISTRY AND TECHNOLOGY OF HIGH POLYMERS (Arts and Science 40). Organic (carbon) and inorganic (silicon) polymers; nature of polymeric molecules; relationship between molecular structure and physical, chemical and mechanical properties; experimental methods for controlling and determining the structures of polymers; properties of commercially available materials; methods of fabrication.

1 lecture per week, session.....PROFESSOR NICHOLLS

65. ADVANCED ORGANIC CHEMISTRY AND LABORATORY (Arts and Science 32. Electronic character, methods of synthesis, physical, chemical and physiological properties of the principal bonds encountered in organic compounds; modern reaction mechanisms; interaction of functional groups; industrial applications of organic chemistry.

2 lectures and 6 hours laboratory per week, session..PROFESSOR NICHOLLS

66. PHYSICAL CHEMISTRY (Arts and Science 34). Kinetic theory of gases; mathematical deduction of fundamental relations for velocity, collision frequency, viscosity, thermal conductivity, diffusion, etc.; discussion of imperfect gases.

1 lecture per week, session.....PROFESSOR WINKLER

Text-book: Loeb, Kinetic Theory of Gases (McGraw-Hill).

66A. ELEMENTARY PHYSICAL CHEMISTRY LABORATORY (Arts and Science 7L). Simple physical chemical methods of investigating kinetic and thermodynamic properties of gases, liquids and solutions.
3 hours per week, session.....PROFESSOR WINKLER and DR. ROSS.

Text-book: Daniels, Matthews and Williams, Experimental Physical Chemistry (McGraw-Hill).

71. INORGANIC QUANTITATIVE ANALYSIS AND LABORATORY Theory of indicators and acid-base titrations; oxidation-reduction titrations; gravimetric and volumetric precipitation; representative laboratory procedures illustrating the above.

1 lecture and 6 hours laboratory per week, second term; this course is also available for students in Geology in the Faculty of Arts and Science.

PROFESSOR MENNIE

Text-book: Mennie, Laboratory Instructions in Quantitative Analysis.

76. Chemical Thermodynamics (Arts and Science 35).
Two lectures per week.....Professor Winkler

Text-books: Steiner, Introduction to Chemical Thermodynamics (McGraw-Hill); Lewis and Randall, Thermodynamics (McGraw-Hill).

Fourth Year

67. Advanced Physical Chemistry (Arts and Science 44). Chemical kinetics; factors affecting rates of homogeneous and heterogeneous reactions; activation energy theories of reaction mechanisms; phase rule.

2 lectures per week, first term; 1 lecture per week, second term.
Professor Winkler and Dr. Ross

Text-books: Hinshelwood, Kinetics of Chemical Change (Oxford). Glasstone, Text-Book of Physical Chemistry (Van Nostrand).

67A. Advanced Physical Chemistry Laboratory. Physico-chemical measurements related to the requirements of chemical engineering design and practice.
3 hours per week, session.....Professor Winkler and Dr. Ross

Text-book: Daniels, Matthews and Williams, Experimental Physical Chemistry (McGraw-Hill).

70. Electrochemistry (Arts and Science 47a). Electrochemical theory; electrolytic conduction; electrolysis; Faraday's laws; specific and equivalent conductance and measurement of conductance; mobility and transport number; hydration of ions; ionization of strong electrolytes, thermodynamics of cells; measurement of electrode potentials; concentration cells; liquid junction potentials; overvoltage and polarization phenomena.

2 lectures per week, first term.....Professor Mennie and Dr. Ross

Reference books: Glasstone, Introduction to Electrochemistry, (Van Nostrand); Creighton, Electrochemistry (Wiley).

75. Colloid Chemistry (Arts and Science 46). Descriptive dynamic and kinetic treatment of the properties of surfaces, sols, emulsions and gels.

1 lecture per week, session.....Dr. Ross

Reference books: Lewis, Squires and Broughton, Industrial Chemistry of Colloidal and Amorphous Materials (Macmillan); Weiser, Colloid Chemistry (Wiley); Hartman, Colloid Chemistry (Houghton Mifflin); Adam, Physics and Chemistry of Surfaces, 3rd Edition (Clarendon Press); Brunauer, Absorption of Gases and Vapors, Vol. I (Princeton Univ. Press).

DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS

Professors.....R. DeL. French, R. E. Jamieson

Emeritus Professor (Post-retirement).....Ernest Brown

Associate Professors.....G. J. Dodd, Carleton Craig, L. J. Arcand

Lecturer.....M. C. Baker

Sessional Lecturers.....J. L. DeStein, S. E. Jamieson, C. C. Lindsay, J. G. Sutherland, W. S. McIlquham

Demonstrator.....D. Moore

Part Time Demonstrators 1946-47.....G. Gagnon, F. L. Guadagni, J. H. Wright, W. Porter

Superintendent of Testing Laboratory.....V. W. G. Wilson

First Year

80. Engineering Problems. Application of mathematics and mechanics to simple scientific and engineering problems, with special attention to mathematical and graphical presentation of ideas, including elementary graphical statics.

3 hours per week, session.....Professor Dodd

194. Mechanics. Elementary dynamics of particles; rectilinear motion; projectiles; the inclined plane and pulleys; impulse, impact and momentum of streams of particles; energy; statics, including equilibrium of concurrent and non-concurrent co-planar forces; the funicular polygon; problems of simple beams and frameworks, with stress analysis by the method of sections.

2 lectures per week, session.....Professor Craig

345. Surveying. Units of measurement; the chain—uses, errors, corrections and compensation; the level—types and limitations; differential and profile levelling; contour surveying; the transit—the vernier, horizontal and vertical angles, deflections, double deflections, azimuths, traverses and meridians; the compass—bearings, magnetic variation and declination and dip.

2 lectures per week, second term.....Mr. Lindsay and Mr. Baker

Text-book: Davis and Foote, Surveying (McGraw-Hill), or Breed, Surveying (Wiley).

SECOND YEAR

81. MATERIALS OF ENGINEERING. An account of the sources, winning, general properties, trade practices and economics of both non-metallic and metallic materials and their products, used in engineering construction and in the manufacturing industries with emphasis on those not discussed in more detail in subsequent courses.

Reading Course.

Text-book: University notes.

83. MECHANICS. Equilibrium of forces; friction; graphical statics; bending moment and shear; analytical statics; relative velocities; variable rectilinear and curvilinear motion; simple harmonic motion with applications to pendulums and springs; kinetic energy; liquid pressure, moments of inertia. Methods of the calculus are used freely.

2 lectures and 2 hours problems per week, session
PROFESSORS JAMIESON and DODD

Text-books: Poorman, Applied Mechanics (McGraw-Hill); Girvin, Applied Mechanics (Int. Textbook Co.).

341A. DESCRIPTIVE GEOMETRY. Theory of orthographic projection; developed surfaces; sections; technical drawing.

3 hours per week, first term.....PROFESSOR ARCAND AND STAFF

346. SURVEYING. Adjustments of level and of transit; theory and use of the polar planimeter; latitudes and departures; areas; plotting co-ordinates; partition of land; missing sides; stadia surveying; cross-sections, grids and slope stakes; circular curves; vertical curves.

2 lectures per week, first term.....MR. LINDSAY AND MR. BAKER

Text-book: Davis and Foote, Surveying (McGraw-Hill).

347. FIELD WORK. Practice in chaining and taping; use of the level and the transit; complete survey of a tract of land.

4 weeks summer school in April and May. PROFESSOR ARCAND AND STAFF

348. MAPPING. Plotting from transit-and-chain and stadia notes taken in Course 347; earthwork calculations; inking, tinting and finishing map, with title, legend, north-point and border.

6 hours per week, first term.....PROFESSOR ARCAND AND MR. BAKER

Text-book: Sloane and Montz, Elements of Topographic Drawing (McGraw-Hill).

349. MAPPING. Special earthwork problems; plotting from transit-and-chain and stadia notes; inking, tinting and finishing map, with title, legend, north-point and border.

3 hours per week, second term.....PROFESSOR ARCAND AND MR. BAKER

Text-book: Sloane and Montz, Elements of Topographic Drawing (McGraw-Hill).

349A. MAPPING; Plotting from transit-and-chain and stadia notes; practice with planimeter.

3 hours per week, first term.....PROFESSOR ARCAND AND MR. BAKER

Text-book: Sloane and Montz, Elements of Topographic Drawing (McGraw-Hill).

THIRD YEAR

82. SANITARY SCIENCE. Communicable diseases; infection, disinfection and quarantine; water and water-borne diseases; sewage and waste disposal; venereal disease; housing; workmen's compensation.

1 lecture per week, first term.....PROFESSOR MACMILLAN

86. MECHANICS. Translation and rotation of solids, including problems of rolling on plane surfaces; compound pendulums; reciprocating machinery with analysis of internal stresses; angular momentum and impact; introduction to the gyroscope with problems and examples of application.

2 lectures per week, first term.....PROFESSORS BROWN and CRAIG

Text-books: Worthington, Dynamics of Rotation (Longmans Green); Poorman, Applied Mechanics (McGraw-Hill).

87. STRENGTH OF MATERIALS. Stress, strain, resilience and elastic properties of materials; bending moment and shear diagrams; simple, fixed and continuous beams; reinforced concrete beams; torsion and bending in shafts and springs; columns; bending combined with direct stress; elementary consideration of compound stresses; distribution of shear.

2 lectures per week, session....PROFESSORS BROWN, DODD and JAMIESON

Text-book: Seely, Resistance of Materials (Wiley); Poorman, Strength of Materials (McGraw-Hill).

Reference books: Morley, Strength of Materials (Longmans Green); Case, Strength of Materials (Arnold); Timoshenko-MacCullough, Elements of Strength of Materials (Van Nostrand).

88. STRENGTH OF MATERIALS LABORATORY. Tension tests; stress-strain diagrams from automatic records, extensometers or scales; deflection of beams; torsion tests; spiral springs; torsional oscillation; moment of

inertia of flywheels; Young's modulus; making and testing concrete; demonstrations on wood and concrete beams and columns and of compressive tests.

3 hours per week, second term.....PROFESSOR JAMIESON AND STAFF

89. FOUNDATIONS AND MASONRY. Design and construction of plain concrete; borings; bearing power of soils; piles and pile driving; footings; grillages; underpinning; foundations under water; coffer dams; caissons; estimating quantities and costs.

1 lecture per week, session; 3 hours problems per week, second term.
PROFESSOR DODD

Text-book: Jacoby and Davis, Foundations of Bridges and Buildings (McGraw-Hill).

90. ELEMENTS OF STRUCTURAL DESIGN. Beams; plate girders; columns; roof trusses; rivetted and welded connections; timber structures; working drawings; estimating quantities and costs.

1 lecture and 3 hours problems per week, second term..PROFESSOR DODD

Text-books: Ketchum, Structural Engineer's Handbook (McGraw-Hill); Ketchum, Mill Buildings (McGraw-Hill); Bishop, Structural Drafting and Design of Details (Wiley); Grinter, Design of Modern Steel Structures (Macmillan); Steel Construction (A.I.S.C.); Standard Specifications for Steel Structures for Buildings (C.S.A.).

92. RAILWAY AND HIGHWAY ENGINEERING. a—Surveys; grades; curvature; earthwork; track; mechanical operation; economics of location and operation; location project and estimate based on summer survey. b—In addition, traffic analyses; elementary soil mechanics; paving materials and construction; lighting; incidental structures; safety.

2 lectures and 6 hours problems and laboratory, first term; 1 lecture and 3 hours problems, second term. PROFESSOR FRENCH AND MR. SUTHERLAND

Text-books: Allen, Railway Curves and Earthwork (McGraw-Hill); Williams, Design of Railway Location (Wiley); Tratman, Railway Track and Trackwork (McGraw-Hill); Bruce, Highway Design and Construction (Int. Textbook Co.).

97. HYDRAULICS. Properties of fluids; hydrostatics; measurement of flow with orifices, weirs and Venturi meters; Bernouilli's theorem; laminar and turbulent flow; flow in pipes and open channels; divided flow.

2 lectures per week, first term.....PROFESSORS BROWN AND CRAIG

Text-books: Ellis, Elements of Hydraulic Engineering (Van Nostrand).

98. HYDRAULICS LABORATORY. Flow through orifices and over weirs; friction in pipes; impact of jets; Venturi measurements; centrifugal pump, Pelton wheel and reaction turbine tests.

3 hours per week, first term.....PROFESSOR CRAIG

350. Mapping. Calculation of mine survey notes using logarithms, traverse tables and a calculating machine. Calculating and mapping of a complete mine survey. Drawing composite level plans. Sections. Mapping mine geology.

3 hours per week, second term.....Professor O'Shaughnessy

351. Map Projections. Graphical determination of spherical triangles; spherical projections; construction of maps.

3 hours per week, first term.....Mr. Baker

352. Surveying. The plane table and its adjustments; the three-point problem; mine surveying; the auxiliary telescope; shaft plumbing; underground traversing; stope surveys; underground curves; borehole surveys; the Brunton compass.

2 lectures per week, second term.....Professor O'Shaughnessy

Text-book: Staley, Introduction to Mine Surveying (Stanford Univ. Press).

353. Surveying and Astronomy. Surveying for construction; marine and box sextants; alidade and its use; barometric and trigonometric levelling; hydrographic surveying; mine surveying; elements of geodetic surveying; historical and practical astronomy; solution of the ZPS triangle for azimuth, latitude, longitude and time.

2 lectures per week, session.....Professor Arcand and Mr. Lindsay

Text-books: Davis and Foote, Surveying (McGraw-Hill); Service, Essentials of Engineering Astronomy (Prentice Hall).

354. Field Work. Preliminary railway or highway survey with transit, profile and topography parties; plane table, hand level and stadia; spiral curves; cross-sections; simple triangulation networks; reciprocal levelling; soundings; current-meter surveys; introduction to mine surveying; small geological survey with Brunton compass and chain; astronomical observations.

Fourth Year

94. Theory of Structures. Analysis of statically determinate frames under fixed or moving loads; influence lines; distortion of frames; braced arches of two and of three hinges; hingeless arches; reinforced concrete; moment distribution; continuous girders of constant and of variable moment of inertia; rigid frames; frames with redundant members.

1 lecture and 3 hours problems per week, first term; 2 lectures and 6 hours problems per week, second term.....Professor Jamieson

Text-books: Johnson, Bryan and Turneaure, Modern Framed Structures, Parts I and II (Wiley); Shedd and Vawter, Theory of Simple Structures (McGraw-Hill); Sutherland and Bowman, Structural Theory (Wiley).

95. Strength of Materials. (a) Floors and columns in reinforced concrete; critical study of standard specifications; footings; retaining walls. (b) Bending and deflection of beams loaded and supported in any manner; deflection due to shear; principle of least work applied to beams and to statically indeterminate problems; bending of curved bars and of unsymmetrical sections; elastic strains; relation between elastic constants; thick shells; earth pressure theories. Part (b) is optional for students in mechanical engineering.

1 lecture and 3 hours problems per week, first term; 2 lectures per week, second term.....Professors Brown and Jamieson

Text-books: Morley, Strength of Materials (Longmans Green); Case, Strength of Materials (Arnold); Timoshenko and Lessels, Applied Elasticity (W.T.N.S. Press); Sutherland and Reese, Reinforced Concrete Design (Wiley); Standard Specifications for Concrete (C.S.A.).

95A. Strength of Materials. Section (a) of Course 95.

95B. Strength of Materials. Section (b) of Course 95.

96. Bridge Design. Selection of bridge types; loading; stress calculations; selection and design of members and connections; working drawings; estimating quantities and costs.

2 lectures and 6 hours problems per week, session.....Professor Dodd

Text-books: Kirkham, Structural Engineering (McGraw-Hill); Ketchum, Structural Engineer's Handbook (McGraw-Hill); Shedd, Structural Design in Steel (Wiley); Grinter, Design of Modern Steel Structures (Macmillan).

99. Hydraulic Machines. Hydraulic problems in design and operation of hydro-electric projects; characteristics of impulse, reaction and propeller turbines; specific speed; unit power; reduction of model tests; flow measurements for tests; centrifugal pumps.

2 lectures per week, second term.....Mr. McIlquham

Text-books: Russel, Hydraulics (Holt); Creager and Justin, Hydro-Electric Handbook (Wiley).

101. Municipal Engineering. Basic engineering and biological principles of the design and construction of water supply and purification systems, and sewerage and sewage disposal works, with selected problems.

4 lectures per week, and 3 hours problems per week, first term.
Professor French

Text-books: Turneaure and Russell, Public Water Supplies (Wiley); Metcalf and Eddy, Sewerage and Sewage Disposal (McGraw-Hill).

103. Waste Disposal. Methods of collection and disposal of garbage, rubbish, ashes, etc.; relative advantages and disadvantages, economic and sanitary.

1 lecture per week, first term.....Professor French

Reference book: Refuse Collection Practice (Am. Pub. Wks. Assn.).

104. Foundations and Reinforced Concrete. A continuation of Courses 89 and 95 (Section A).

2 lectures per week and 3 hours problems per week, second term.
Professors Jamieson and Dodd

Text books: As specified for Courses 89 and 95.

105. Fluid Mechanics. Dimensional analysis; kinematics of fluid flow; mechanics of resistance; boundary layers; open channel flow; dynamic lift and propulsion.

3 lectures per week, second term.....Professor Craig

Reference books: Dodge and Thompson, Fluid Mechanics (McGraw-Hill; Rouse, Fluid Mechanics for Hydraulic Engineers (McGraw-Hill).

106. Dynamics and Vibration. Rotating axes; Lagrange equations; kinematics of vibration; complex representation; damping; resonance; coupled systems.

3 lectures per week, second term.....Professor Craig

Reference books: Lamb, Dynamics (Cambridge); den Hartog, Mechanical Vibrations (McGraw-Hill); Timoshenko, Vibration Problems in Engineering (Van Nostrand); Von Karman and Biot, Mathematical Methods in Engineering (McGraw-Hill).

One of these courses is given each year to both third and fourth year students in the applied mechanics option. The courses are given from the engineering point of view, with special attention to approximation methods.

359. Geodesy. Adjustment and reduction of observations for horizontal and vertical control systems; figure of the earth; determination of azimuth, latitude and longtitude; level datum planes; gravimetric surveys; errors of observation; elements of map projection.

Reference books: Hosmer, Geodesy (Wiley); Sharp, Geodetic Control Surveying (Wiley).

360. Geodetic Laboratory. Measurement of magnifying power, of eccentricity of circles, and of small angles with sextant; determination of gravity, of error of run of theodolite microscopes, of constant of steel tapes, and of scale value of level vials; investigation of errors of graduation of steels bars and tapes and of transit circles; testing anaeroid barometers.
2 lectures per week, second term....Professor Arcand and Mr. Baker

361. FIELD WORK. Field astronomy; geodesy; geodetic astronomy. Ample equipment and an observatory are available.

PROFESSOR ARCAND AND MR. BAKER

362. PHOTOGRAMMETRY AND LABORATORY.

2 lectures per week, second term; 3 hours laboratory per week, second term..... MR. BAKER

FIELD WORK

Field work is required of all students entering the Second Year, except those taking Chemical Engineering, of students entering the Third Year in the courses in Civil and in Mining Engineering, and of students entering the Fourth Year course in Civil Engineering. The work will begin in 1947 on or about April 25th and will continue for four weeks.

Students entering Second and higher Years from other Universities or from other Faculties, who cannot attend the above courses in Field Work must attend Special Summer Schools, details of which are given on page 1033.

DEPARTMENT OF ELECTRICAL ENGINEERING

Professors..... C. V. CHRISTIE, G. A. WALLACE

Associate Professors..... E. G. BURR, F. S. HOWES

Assistant Professors..... W. H. SCHIPPEL, R. A. CHIPMAN

Demonstrators..... A. H. D. HAIBLEN, A. I. GORDON

110. ELECTRICAL ENGINEERING. An introduction to Course 113.

2 lectures and 3 hours laboratory per week.

PROFESSORS CHRISTIE AND WALLACE

111. ELEMENTS OF ELECTRICAL ENGINEERING. Construction, principles of operation and characteristic curves of both direct- and alternating-current generators and motors; single-phase, two-phase and three-phase machinery; direct-current and alternating-current transmission and distribution; transformers with star and delta connections; correction of power factor; rectifiers.

2 lectures per week, session.....PROFESSOR WALLACE

Text-book: Gray and Wallace, Principles and Practice of Electrical Engineering (McGraw-Hill).

112. ELECTRICAL ENGINEERING LABORATORY. Operating characteristics of direct-current and of alternating-current generators and motors; transformers; circuits containing resistance, inductance and capacitance: series and parallel resonance; power-factor correction.

3 hours per week, session.....PROFESSOR WALLACE AND STAFF

Third Year

113. Electrical Engineering. Direct- and alternating-current flow in circuits, with an introduction to circuit analysis; review of the laws of electromagnetism and of electric and magnetic fields; theory and operating characteristics of direct-current machinery; principles of alternating-current machinery; introduction to the theory of thermionic tubes.

4 lectures per week, session.....Professor Christie

Text-book: Christie, Electrical Engineering (McGraw-Hill).

114. Electrical Engineering Laboratory. Operating characteristics of direct-current and alternating-current generators and motors and control devices; measurement of voltage, current, power, etc., in both direct- and alternating-current circuits; circuit characteristics.

6 hours laboratory and 6 hours problems per week, session.

Professors Wallace and Burr and Staff

114A. Electrical Engineering Laboratory. Similar to Course 114, but 9 hours per week, first term, and 6 hours per week, second term.

Professors Wallace and Burr and Staff

Fourth Year

117. Electrical Engineering. Theory and operating characteristics of alternating-current machinery; theory and operating characteristics of power transmission lines and systems; method of symmetrical components applied to the determination of unbalanced fault current in power systems.

4 lectures per week, session.....Professor Christie

Text-book: Christie, Electrical Engineering (McGraw-Hill).

117A. Electrical Engineering. First term only of Course 117.

4 lectures per week, first term.....Professor Christie

Text-book: Christie, Electrical Engineering (McGraw-Hill).

118. Electrical Engineering Laboratory. Alternating-current generators; synchronous motors; induction motors; transformers; compensators; frequency and phase changing apparatus; potential regulators: rectifiers, etc.; special attention is paid to preparation of reports.

9 hours per week, first term; 12 hours per week, second term, power option: 6 hours per week, session, communications option..Professor Schippel

118A. Electrical Engineering Laboratory. Similar in content to 118, but reduced in time to 3 hours per week, first term.

Professor Schippel

120. Electric Light and Power Distribution. Systems for supply of lighting and power with special emphasis on industrial loads.

2 lectures per week, first term.....Professor Burr

Reference book: Electric Power Distribution for Industrial Plants (Am. Inst. of Electrical Engineers).

121. Radio Design. Design theory and calculations for small power transformers and filter chokes, class C power amplifiers, phasing and matching networks, and simple directional antenna arrays.

3 hours per week, second term.....Professor Howes

122. Electrical Design and Problems. Principles of design of direct-current generators and motors and of alternating-current generators, motors and transformers; preparation of practical designs and determination of characteristics.

1 lecture and 3 hours problems per week, first term, for all students;
1 lecture and 6 hours problems per week, second term, in power option.

Professor Schippel

Text-book: Gray, Electrical Machine Design (McGraw-Hill).

123. Power Control and Protection. Electrical power generating plant; distribution by radial feeders and networks; street lighting; circuit breaker operation; service continuity and relay protection; miscellaneous applications of electricity.

3 lectures per week, second term.....Professor Burr

Reference Book: Electrical Transmission and Distribution Reference Book, (Westinghouse).

124. Electrical Measurements and Laboratory. Units; absolute measurement of current and resistance; standard cells; direct-current potentiometers; primary standards of mutual and self inductance; methods of constructing bridges and of obtaining multiples and submultiples of primary standards; alternating-current bridges; shielding; detectors; alternating-current potentiometers; alsolute measurement of capacitance; measurement of magnetic flux; instrument transformers; meters; photometry.

2 lectures and 2 hours laboratory per week, first term; 3 hours laboratory per week, second term.....Professor Wallace

125. Thermionic Tube Theory. Theory and operating characteristics of high-vacuum and gas-filled tubes; applications to rectifiers, amplifiers and oscillators.

2 lectures and 3 hours laboratory per week, second term.

Professor Chipman

Text-book: Terman, Radio Engineering (McGraw-Hill).

126. Communication Engineering (Wire). Steady-state solution of uniform alternating-current transmission line; special terminations; velocity of propagation; transmission and insertion loss; reflection; hyperbolic functions of complex quantities; distortion and its control; loading of cable circuits; cut-off frequency; telephone repeaters; carrier telephony; modulation; side bands; demodulation; noise meter; T.I.F. meter; cross talk; co-ordinated transpositions; residual voltages and currents on power lines; transient inductive interference.

2 lectures per week, first term.....Professor Wallace

127. Radio Engineering. Radio communication theory and practice; coupled-circuit theory; radio-frequency amplifiers; modulation; demodulation; frequency-conversion; antennas; radiation and wave propagation.

2 lectures per week, first term; 3 lectures per week, second term.
Professor Howes

128. Radio Engineering Laboratory. Measurement of tube constants; predetermination and measurement of gain, frequency response, power output, and distortion of audio- and radio-frequency amplifiers; studies of feed-back and cathode-follower amplifiers; adjustment and testing of power oscillators and radio receivers; measurement of per cent modulation and distortion; study of demodulation; study of long lines, short radio-frequency lines, and filter networks; measurement of wave length by Lecher wires; impedance matching; loop and dipole antenna studies; theory and use of audio and radio-frequency bridges, Q meter, radio noise meter, and harmonic analyzer.

6 hours per week, session.....Professors Howes and Chipman

129. Electrical Services. Production, measurement, and control of light; design of lighting systems; electrical distribution in residential and commercial buildings; Canadian Electrical Code. Given in alternate years.

2 lectures per week, second term....Professors Wallace and Schippel

130. Industrial Electronics. The application of electron tubes to rectification, inversion, timers, relays, stroboscopes, line-voltage and motor-speed control and regulation, resistance welding, induction and electrostatic heating, industrial process control, etc.

2 lectures per week, second term.....Professor Schippel

131. Radio-Frequency Transmission Lines and Matching Networks. The application of transmission-line theory to open-wire and coaxial radio-frequency lines; the use of line sections as tuned-circuit elements and as components of matching networks; the measurement of complex impedances at ultra-high frequencies; theory and use of transmission-line charts.

2 lectures per week, second term.....Professor Chipman

ENGINEERING LAW AND ECONOMICS

Associate Professor of Economics.....J. B. ROLLIT

Associate Professor of Accountancy.....D. R. PATTON

Lecturer in Law.....GEORGE S. CHALLIES

THIRD YEAR

171. ELEMENTS OF POLITICAL ECONOMY. Scope and method of economic analysis; objectives of economic policy; concepts and components of national income; relations and determinants of income and employment and their policy implications; distribution of income and its policy implications; allocation of resources; monopoly and its policy implications.

2 lectures per week, second term.....PROFESSOR ROLLIT

Text-book: Bye, Principles of Economics (Crofts).

FOURTH YEAR

172. ENGINEERING ECONOMICS.

(a) CORPORATION FINANCE. Principles of accounting; corporate financial statements; business forms; organization; books of account; capital and revenue; expenditure; manufacturing, trading and profit and loss statements; balance sheet; cost accounting.

PROFESSOR PATTON

(b) CANADIAN ECONOMIC PROBLEMS. Types of economic policy; role of public works and housing in fixed employment, income distribution and monopoly control; principles and problems of planning public investments.

2 lectures per week, first term, including both (a) and (b).

PROFESSOR ROLLIT

175. ENGINEERING LAW. Definition of law; different branches of law; distinction between civil and criminal law and civil and common law; statutes, orders in council and by-laws; Canadian constitutional law and courts; civil law including marriage, tutorship, minority and interdiction, types of property, types of ownership, successions and wills; expropriation and servitudes; contracts generally; responsibility for negligence; Workmen's Compensation Act; privileges, hypothecs, registration and prescription; marriage contracts and rights of women; sale and lease and hire; engineering and architectural contracts; responsibility of architect and builder; organisation of engineering and architectural professions; patents, trademarks, industrial design and coypright; partnership, and companies; mining; railways; expert evidence.

1 lecture per week, session.....MR. CHALLIES

ENGINEERING PRACTICE

Lecturer in Oral English.....A. Robert George

A series of related courses designed to acquaint the student with the background of his profession, its relation to others and its place in society, with some consideration of matters not discussed in the professional courses,

135. History of Science. Birth and development of the fundamental physical sciences, their relation to engineering and the development of engineering as a profession.

1 lecture per week, session.....Professor French

136. Engineering Reports. Use of English, both oral and written, in engineering practice; mechanics of presentation; graphical representation; reproduction methods.

1 lecture per week, session.....Professor French and Mr. George

137. Engineering Reports. Continuation of Course 136: mathematical treatment of data; elementary statistics; methods of economic comparison.

1 lecture per week.....Professors Dodd, French and MacLean

A bonus of 15 marks is granted to each student who successfully completes Course 137. This bonus is considered in ranking students, but not in determining whether they have passed their year.

DEPARTMENT OF GEOLOGICAL SCIENCES

Professors.....John J. O'Neill, T. H. Clark

Professor (Post-retirement).....R. P. D. Graham

Associate Professors.....J. E. Gill, F. F. Osborne, A. W. Jolliffe

Demonstrators.....To be appointed.

Second Year

141. General Geology (Arts and Science 1). The earth and the solar system; minerals and rocks composing the earth: erosive forces (weather, wind, rivers, waves, etc.) modifying its surface, and deformative processes (temperature, compression, etc.) affecting its subsurface structure; the origin and historical development of the earth and of living things.

2 lectures and 2 hours laboratory per week, session. During the first few weeks the laboratory work is replaced by field excursions.

Professor Clark

Text-book: Longwell, Knopf, Flint, Schuchert, and Dunbar, Outlines of Geology (Wiley).

142. MINERALOGY (Arts and Science 5). Physical properties and chemical composition of minerals; crystallography; the more important ore-minerals; industrial minerals; rock-forming minerals; uses and sources of supply of economic minerals.

2 lectures per week, session.....PROFESSORS GRAHAM AND JOLLIFFE

Text-book: Kraus, Hunt and Ramsdell, Mineralogy (McGraw-Hill).

143. DETERMINATIVE MINERALOGY (Arts and Science 6b). Methods for the determination of the constituents of minerals by blowpipe analysis and by related chemical tests; application in the identification of minerals.

3 hours laboratory per week, session..PROFESSORS GRAHAM and JOLLIFFE

THIRD YEAR

142A. MINERALOGY (Arts and Science 5). Same as Course 142, but held at different hours.

2 lectures per week, session.....PROFESSOR GRAHAM

Text-book: Kraus, Hunt and Ramsdell, Mineralogy (McGraw-Hill).

143A. DETERMINATIVE MINERALOGY (Arts and Science 6b). Similar to Course 143, but held at different hours.

3 hours laboratory per week, first term

PROFESSORS GRAHAM AND JOLIFFE

146. PETROLOGY (Arts and Science 10b). The common igneous, sedimentary and metamorphic rocks; modes of occurrence; identification by field methods.

2 lectures and 3 hours laboratory per week, second term.

PROFESSOR OSBORNE

Text-book: Pirsson and Knopf, Rocks and Rock Minerals (Wiley).

147. STRUCTURAL AND FIELD GEOLOGY (Arts and Science 7a). Field methods; systematic survey of rock structures, their origins and practical importance.

2 lectures and 3 hours laboratory per week, first term...PROFESSOR GILL

Reference books: Lahee, Field Geology (McGraw-Hill); Billings, Structural Geology (Prentice-Hall).

FOURTH YEAR

148. ORE DEPOSITS (Arts and Science 8). Nature, origin, mode of occurence and classification of deposits of metallic and non-metallic minerals; typical occurrences; geographical distribution.

2 lectures per week, session; 3 hours laboratory per week, second term.

PROFESSORS O'NEILL AND JOLLIFFE

Reference books: Emmons, Principles of Economic Geology (McGraw-Hill); Bateman, Economic Mineral Deposits (Wiley).

149. Geology and Natural Resources of Canada (Arts and Science 4b) Systematic survey of the surface features, soils, bedrock geology, mineral resources, forests, water powers and other minor resources of Canada. Maps and photographs are used to illustrate the course.

2 lectures and 3 hours laboratory per week, second term. PROFESSOR GILL

DEPARTMENT OF MATHEMATICS

Professors: C. T. SULLIVAN, N. B. MACLEAN, A. H. S. GILLSON, W. L. G. WILLIAMS

Associate Professor: P. R. WALLACE

Assistant Professors: W. B. ROSS, EDWARD ROSENTHALL, C. D. SOLIN

Lecturers: R. H. BOTT, HYMAN KAUFMAN, JOACHIM LAMBEK, A. J. LOOKER, J. S. MAMELEK, SAMUEL MELAMED

FIRST YEAR

192. ALGEBRA. Partial fractions; interest and annuities; complex numbers; De Moivre's theorem; curve fitting and graphs; polar co-ordinates; solution of polynomial and some special equations.

3 lectures per week, second term.

MESSRS. LOOKER, MAMELAK AND LAMBEK

193. CALCULUS. Functional notation limits; differentiation of elementary functions; maxima and minima; ratio; curvature; other applications; integration of standard functions; definite integrals; geometric and physical application; spherical trigonometry.

3 lectures per week, session.

PROFESSORS GILLSON, AND SOLIN, AND MESSRS. KAUFMAN AND LOOKER

Text-books: Smith, Salkover and Justice, Calculus (Wiley); Hart, Spherical Trigonometry (Heath).

195. ANALYTIC GEOMETRY. Conic sections and their simple properties; introduction to three-dimensional analytic geometry.

3 lectures per week, first term.....PROFESSOR GILLSON AND MR. LOOKER

Text-book: Young, Fort and Morgan, Analytic Geometry (Houghton-Mifflin).

Second Year

196. Nomography. Nomographic representation of formulae and solution of equations.

1 lecture per week, first term.....Mr. Looker

197. Problems in Mathematics and Physics. Selected problems and conferences.

3 hours per week, session.....Messrs. Mamelak and Melamed

198. Calculus. Partial differentiation; double and triple integrals; applications to volumes, moments of inertia, etc.; Taylor's theorem; exponential and logarithmic series; hyperbolic functions.

2 lectures per week, session.

Professors MacLean, Wallace, and Williams and Mr. Kaufman.

Text-book: Smith, Salkover and Justice, Calculus (Wiley).

199a. Advanced Calculus. Applications of differentiation and integration; series with real terms; partial differentiation; Taylor's series; vectors, with applications to mechanics and geometry; transformation of coordinates in three dimensions; line, surface and volume integrals; Green's and Stokes' theorems; transformation of multiple integrals; Jacobians; algebra of complex numbers; Fourier series.

3 hours per week, first term; 2 hours per week, second term.....

Text-books: Phillips, Analytic Geometry and Calculus (Wiley); Reddick and Miller, Advanced Mathematics for Engineers (Wiley).

199b. Differential Equations. Ordinary differential equations; linear differential equations, especially with constant coefficients; solution by series; elements of partial differential equations; separation of variables; use of Fourier series; cylindrical problems; Bessel functions, with applications to physics, chemistry and engineering.

1 hour per week, first term; 2 hours per week, second term.....

Text-books: Reddick, Differential Equations (Wiley); Reddick and Miller, Advanced Mathematics for Engineers (Wiley).

Third Year

201. Algebra and Differential Equations (Arts & Science 37) Ordinary differential equations; methods of solution; elementary functions in complex numbers; linear differential equations, especially with constant co-efficients; vibration and electric circuit problems; setting up equations; solution by series.

2 lectures per week, session.....Professors MacLean and Wallace

Text-book: Reddick, Differential Equations (Wiley).

203. Theory of Functions (Engineering Applications). Conformal mapping; properties of analytic functions; residues; Cauchy's theorem; contour integrals; Laplace transformations; applications to ordinary and partial differential equations.

1 lecture and 1 hour problems, session.....Professor Rosenthall

Text-books: Rothe, Ollendorf and Pohlhauser, Theory of Functions as Applied to Engineering Problems (Technology Press).

204. Mathematical Physics (Arts & Science 41). A survey of methods and ideas common to all branches of mathematical physics.

Twelve lectures on calculations arising in spectroscopy and nuclear physics will be given by Professor J. S. Foster.

The first term of this course, designated as Arts and Science 41a, will be taken as a separate course by students in Honours Mathematics.

3 hours per week, session.....Professor Gillson

(See also Physics 441).

Texts: Houston, Introduction to Mathematical Physics (Longmans); Page, Introduction to Theoretical Physics (Van Nostrand): Von Karman and Biot, Mathematical Methods in Engineering (McGraw-Hill).

DEPARTMENT OF MECHANICAL ENGINEERING

Professor..... C. A. Robb
Professor (Post-Retirement)..... C. M. McKergow
Associate Professors..... R. H. Patten, R. W. Klinck
Assistant Professors..... William Bruce, R. B. Killam, J. M. White
Assistant Professor (Post-retirement)..... J. A. Coote
Lecturer..... W. B. Rice
Demonstrators..... Alfred Assaly, P. H. Wong
Shop Instructor..... F. G. Corrick

First Year

340. Drawing. Fundamental drawing techniques and their application to the solution of engineering problems; lettering; use of instruments and materials; orthographic projection and pictorial drawing; freehand sketching.

6 hours per week, session.....Professor Klinck

Text-book: French, Engineering Drawing (McGraw-Hill).

Second Year

218. Mechanics of Machines. Constrained motion; instant centers; centrodes; analysis and classification of simple mechanisms, including the quadric-crank, the slider-crank and wheel trains; design of involute gear teeth; belts and flexible couplings; cam design.

1 lecture, 3 hours problems per week, second term....Professor Patten

Text-book: Guillet, Kinematics of Machines (Wiley).

343. Mechanical Drawing. Half of Course 344.

3 hours per week, first term.....Professor Klinck

Text-book: French, Engineering Drawing (McGraw-Hill).

344. Mechanical Drawing. Draughting techniques and standard practices of the mechanical engineer; detailing, sectioning and dimensioning; assembly and simple design drawings.

3 hours per week, session.....Professor Klinck

Text-book: French, Engineering Drawing (McGraw-Hill).

Third Year

224. Mechanics of Machines. Displacement, velocity and acceleration in engine mechanisms; crank-effort diagrams; fly wheels and inertia forces; engine balancing; function and dynamics of governors; simple slide valve; expansion valves; friction and lubrication.

2 lectures and 1 hour problems per week, session.....Professor Killam

225. Machine Design. Application of strength of materials to the design of machine elements; metal fits; centrifugal loading; vibration.

2 lectures per week, session.....Professor Klinck

Text-books: Bradford and Eaton, Machine Design (Wiley); Maleev, Machine Design (International Textbook).

226. Mechanical Engineering. Design and operation of prime movers; elementary thermodynamics; fuels and combustion; production of steam; boiler design and operation; economizers; heat cycles; steam engines and turbines; condensers and pumps; gas and oil engines; carburetors; timing.

2 lectures per week, session.....Professors Patten and Bruce

Text-book: MacNaughton, Elementary Steam Power Engineering (Wiley).

227. Mechanical Engineering. Same as Course 226, but 1 hour problems per week additional.

2 lectures and one hour problems per week.....Professor Robb

Text-book: MacNaughton, Elementary Steam Power Engineering (Wiley).

228. MECHANICAL ENGINEERING LABORATORY. Testing, calibration and use of indicators, brakes and other instruments; properties of lubricants; tests of economy and performance of steam engine, boiler, oil engine, air compressor, steam pump and steam turbine; heat emission from steam radiator; heat loss from lagged steam pipe; proximate analysis and calorific value of coal and of city gas; flue-gas analysis; combustion calculations.

3 hours per week, session.....PROFESSOR KILLAM AND STAFF

Text-book: Diederichs and Andrae, Experimental Engineering (Wiley).

229. THERMODYNAMICS. General laws and equations; properties of gases and vapours; the Carnot principle; the concept of entropy; applications to steam engines, steam turbines, internal combustion engines, gas turbines, gas compressors and mechanical refrigeration.

2 lectures per week, session.....PROFESSOR BRUCE

Text-books: Moyer, Calderwood and Potter, Elements of Engineering Thermodynamics (Wiley); V. W. and G. A. Young, Elements of Engineering Thermodynamics (McGraw-Hill); Keenan and Keyes, Properties of Steam (Wiley).

231. MECHANICAL DRAWING. A project covering layout, foundation, detail and assembly drawings, design calculations and tabulations.

3 hours per week, session.....PROFESSOR KLINCK

Reference Book: Kent, Mechanical Engineers' Handbook, Design and Shop Practice Volume (Wiley).

233. SUMMER SCHOOL.

(a) Elementary machine shop practice.....Mr. CORRICK

(b) Machine elements: sketching; detailing; tracing.

PROFESSOR KLINCK

Four weeks in April and May or in September preceding the Third Year.

Text-book: French, Engineering Drawing (McGraw-Hill).

236. MACHINE SHOP. Lathe work; marking off; centering; turning and boring; filing; grinding; screw cutting; bench work.

3 hours per week, session.....MR. CORRICK

237. INDUSTRIAL ENGINEERING. Rise of modern industry; the Industrial Revolution; mechanization, standardization and specialization in industry; forms of ownership; organization, location and layout of industrial plants; production control; inspection; costs; depreciation; wage systems.

2 lectures per week, first term.....PROFESSOR WHITE

Text-book: Alford, Principles of Industrial Management (Ronald Press).

238. ACCOUNTING. General accounting principles and practice; financial statements; balance sheet; profit and loss statement; interpretation of statements; cost accounting; job-lot and process cost systems; costing points; modifications of usual practice for an industrial concern.

1 lecture and 3 hours problems per week, session.....PROFESSOR COOTE

Text-book: Specthrie, Industrial Accounting (Prentice Hall)

FOURTH YEAR

240. MECHANICS OF MACHINES.

(a) Design of cams; balancing and balancing machines; elementary vibration problems.

2 lectures and 1 hour problems, first term.....PROFESSOR KILLAM

(b) Fundamentals of aerodynamics; methods of experiment; prediction of performance, stability and control; theory and design of airscrews.

2 lectures and 1 hour problems, second term.....PROFESSOR MCKERGOW

Text-book: Jones, Elementary Practical Aerodynamics (Wiley).

241. DESIGNING. Design calculations and drawings intensively applied to the synthesis of a simple machine.

3 hours per week, session.....PROFESSOR KLINCK

242. MACHINE DESIGN. The design of bearings, cylinders, connecting rods, crankshafts and flywheels; belt, chain and gear drives; curved beams and flat plates.

2 lectures per week, session.....PROFESSOR KLINCK

Text-book: Maleev, Machine Design (International Textbook).

243. MACHINE DESIGN. The mechanical design of electrical equipment.

2 lectures per week, second term.....PROFESSOR KLINCK

Text-book: Bradford and Eaton, Machine Design (Wiley).

244. POWER PLANT DESIGN. Arrangement, design and operation of steam and of internal-combustion power plants; requirements for light, heat and power distribution.

1 lecture and 3 hours drafting per week, session.....PROFESSOR ROBB

Text-book: Gebhardt, Stream Power Plant Engineering (Wiley).

247. HEATING AND VENTILATION OF BUILDINGS. Heat loss from buildings; radiation, conduction and convection; heat insulating materials radiators, convectors, panel heating and unit heaters; distribution systems,

air, steam and hot water; furnaces; fuels; heating load and requirements: properties of air; effective temperature; low temperature radiation; air conditioning, filters, washers and humidifiers; cooling; fans; automatic control.

1 lecture per week, session.....PROFESSOR PATTEN

Text-book: Allen and Walker, Heating and Air Conditioning (McGraw-Hill).

249. MECHANICAL ENGINEERING LABORATORY. Investigation and tests of steam boilers, internal-combustion engines, air compressors, rotary and vacuum pumps; analysis of solid fuels; heat transmission and insulation; unit heaters; lubricants and friction; measurement of fluid flow, especially of gases.

9 hours per week, session.

PROFESSORS PATTEN, ROBB, KILLAM AND BRUCE

Reference Book: Diederichs and Andrae, Experimental Mechanical Engineering, Vol. I (Wiley).

249A. MECHANICAL ENGINEERING LABORATORY. Similar to Course 249.

6 hours per week, session.

PROFESSORS PATTEN, ROBB, KILLAM AND BRUCE

Reference Book: Diederichs and Andrae, Experimental Mechanical Engineering, Vol. I (Wiley).

251. THERMODYNAMICS. Principle of the increase of entropy and unavailable energy; general energy equation for steady flow; power-plant cycles; refrigeration cycles; theory of flow of gases and vapours through orifices and nozzles with applications to metering and to steam turbines; internal combustion engines.

2 lectures per week, session.....PROFESSOR BRUCE

Text-books: Kiefer and Stuart, Engineering Thermodynamics (Wiley); Goudie, Steam Turbines (Wiley); Keenan, Thermodynamics (Wiley).

252. MACHINE SHOP. Exercises on lathe, planer, slotter, shaper and miller; gear cutting; grinding.

3 hours per week, session.....MR. CORRICK

253. INDUSTRIAL ENGINEERING. Design of an enterprise; economic investigation; determination of plant policy; plant design; financial set-up; fire prevention; lighting, heating and ventilation; material handling; forms of buildings; soil investigation; foundations; building construction.

2 lectures and 3 hours problems per week, session.....PROFESSOR WHITE

Text-book: Lansburgh, Industrial Management (Wiley).

254. INDUSTRIAL ADMINISTRATION. Organization; classification; symbolization; plant, equipment and product design; material, manufacture, labour and personnel control; costs and budgets.

1 lecture and 3 hours problems, second term.....PROFESSOR WHITE

257. EXPERIMENTAL ENGINEERING. Calibration and use of instruments; measurement of pressure, of temperature and of power; test methods.

1 lecture per week, session.....PROFESSOR PATTEN

Text-book: Diederichs and Andrae, Experimental Engineering (Wiley).

258. INDUSTRIAL RELATIONS. Problems of modern industrial conditions; wages and incentives; wage differentials; job valuation; service rating; training and education; joint relations; collective bargaining; workers' security; work environment; recreation; industrial legislation; research; organization; personnel policy.

2 lectures per week, first term.....PROFESSOR COOTE

Text-books: Watkins and Dodd, Management of Labor Relations (McGraw-Hill); Scott, Clothier, Mathewson and Spriegel, Personnel Management (McGraw-Hill).

COURSES FOR THE DEGREE OF MASTER OF ENGINEERING OR MASTER OF SCIENCE

Graduate courses are offered in Engineering Thermodynamics, Machine Design and Industrial Engineering. For particulars of these and qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

DEPARTMENT OF METALLURGICAL ENGINEERING

Professor.....J. U. MACEWAN

Associate Professor.....G. S. SPROULE

Dawson Fellow.....S. E. JAMIESON

SECOND YEAR

264. METALLURGICAL PROBLEMS. The gas laws in metallurgical operations: materials balances in combustion, coke and gas manufacture.

3 hours per week, second term.....PROFESSOR MACEWAN

Text-book: Butts, Metallurgical Calculations (McGraw-Hill).

Third Year

261. Metallurgy of Iron and Steel. Introduction to physical metallurgy; refractory materials; pyrometry; theory and practice of heat-treating iron and steel.

1 lecture per week, session.....Professor Sproule

Reference books: Liddell, Handbook of Non-ferrous Metallurgy, Vol. I (McGraw-Hill); Newton, Introduction to Metallurgy (Wiley); Rosenholtz and Oesterle, Elements of Ferrous Metallurgy (Wiley); Stoughton, Metallurgy of Iron and Steel (McGraw-Hill); Boylston, Metallurgy of Iron and Steel (Wiley); Teichert, Ferrous Metallurgy, Vol. II (McGraw-Hill).

262. Metallurgical Laboratory. Experiments illustrate Course 261; making and testing alloys; using furnaces and pyrometers; hardening and tempering steel; simple refining operations.

3 hours per week, second term.....Professor Sproule

263. Fire Assaying and Laboratory. An account of equipment and procedures used in fire assay of ores and of processed materials for precious metals, emphasizing the underlying theory; instruction in practical assaying.

2 weeks summer school.....Professor Sproule

Reference books: Smith, Sampling and Assay of the Precious Metals (Griffin); Fulton and Sharwood, Manual of Fire Assaying (McGraw-Hill); Bugbee, Testbook of Fire Assaying (Wiley); Shepard and Dietrich, Fire Assaying (McGraw-Hill).

265. Metallurgical Problems. Materials balances for smelting and refining operations, heat balances; problems dealing with the application of thermodynamic principles to metallurgical operations.

2 hours per week, session.....Professor MacEwan

266 Physical Metallurgy. Review of ferrous metallurgy; introduction to non-ferrous alloys; theory of alloys; theory and practice of heat-treating; use of furnaces, pyrometers and testing equipment.

1 lecture and 2 hours laboratory per week, first term.

Professor Sproule

Reference books: As for Course 261, and also Heyer, Engineering Physical Metallurgy (Van Nostrand); Dowdell, General Metallography (Wiley); Williams and Homerberg, Introduction to Metallography (McGraw-Hill); Brick and Phillips, Structure and Properties of Alloys (McGraw-Hill).

268. METALLURGICAL FIELD SCHOOL. Third Year students are taken on conducted visits to plants in and around Montreal to see smelting, refining and varied metal-processing operations. At the end of the Third Year about one week is spent on such visits.

279. METALLURGICAL ANALYSIS. Instruction and practice in commercial methods of analysis of metallurgical materials and products.

3 hours per week, first term ..... PROFESSOR MACEWAN

FOURTH YEAR

271. GENERAL METALLURGY. Basic principles of roasting, smelting, refining and hydrometallurgical processes as applied to the non-ferrous metals; physical metallurgy of copper, lead, zinc and their alloys; furnaces; fabricating equipment.

2 lectures per week, session..... PROFESSOR MACEWAN

Reference books: The Departmental Library has numerous texts, reference books and periodicals, which are available to students.

272. ADVANCED METALLURGY. Application of the principles of physical chemistry to the more important metallurgical processes; combustion; blast furnaces; open hearths; refining furnaces; metallurgy of metals and alloys not covered in Course 271.

2 lectures per week, session..... PROFESSOR MACEWAN

Reference books: See Course 271.

274. METALLURGICAL THESIS. Students choose or are assigned subjects for investigation. They are expected to show initiative in studying relevant literature, laying out their experimental program, setting up apparatus, correlating results and preparing a report.

3 hours per week, first term; 9 hours per week, second term.
PROFESSORS MACEWAN and SPROULE

Reference books: See Course 271.

275. ELECTROMETALLURGY. Application of the principles of electro, chemistry to electro-refining and electro-winning of metals,— copper-silver, gold, lead, zinc, nickel, aluminum, etc.; electro-plating; electro-forming.

2 lectures per week, second term..... PROFESSOR MACEWAN

Reference books: See Course 271.

277. METALLURGICAL COLLOQUIUM. Students are required to present detailed papers on selected metallurgical topics. This is followed by a discussion period. 1 hour per week, second term.

278. METALLURGICAL PROBLEMS AND DESIGN. Problems dealing with the application of thermodynamic principles to metallurgical operations; flame temperature; controlled atmospheres; furnace equilibria; heat transfer; flow of fluids; plant layouts and organization.

3 hours per week, first term; 5 hours per week, second term.
PROFESSOR MACEWAN

Reference books: See Course 271.

279. METALLURGICAL ANALYSIS. Instruction and practice in commercial methods of analysis as applied to ores and metallurgical products.

3 hours per week, first term.....PROFESSOR O'SHAUGHNESSY

280, 281. METALLOGRAPHY AND LABORATORY. Elements of physical metallurgy, laws and data of physical chemistry applied to metals and alloys; detailed metallography and heat treatment of iron and steel; metallography of non-ferrous metals.

2 lectures per week, session; 3 hours laboratory per week, second term
PROFESSOR SPROULE

Reference books: As for Course 266, and also Doan and Mahla, Principles of Physical Metallurgy (McGraw-Hill); Van Wert, Introduction to Physical Metallurgy (McGraw-Hill); Sauveur, Metallography and Heat Treatment of Iron and Steel (McGraw-Hill); Tiechert, Metallography and Heat Treatment of Iron and Steel, Vol. III (McGraw-Hill).

COURSES FOR THE DEGREE OF MASTER OF ENGINEERING

Graduate Courses are offered in Advanced Metallurgy, Electrometallurgy, Metallurgical Problems and Metallography. For particulars of these and qualifications for entering the Graduate Faculty, see the Announcement of the Faculty of Graduate Studies and Research.

RESEARCH FELLOWSHIP IN THE DEPARTMENT OF METALLURGICAL ENGINEERING

There is one endowed research fellowship in the Department. This is awarded to a graduate of the Department who shows particular aptitude for advanced work, and is held in the Faculty of Graduate Studies and Research. Graduates of other universities are admitted to this Faculty, if qualified, but are not eligible for the fellowship mentioned.

DEPARTMENT OF MINING ENGINEERING

Professor.....L. W. BLADON
Assistant Professor.....M. D. O'SHAUGHNESSY
Douglas Fellow.....
Harrington Fellow.....

THIRD YEAR

291. MINING METHODS. General mining methods; placer mining quarrying; open-pit mining; underground mining.

2 lectures per week, first term.....PROFESSOR BLADON

Reference books: Peele, Mining Engineers' Handbook (Wiley); Lewis, Elements of Mining (Wiley); Young, Working of Unstratified Mineral Deposits (Benn); Young, Elements of Mining (McGraw-Hill).

292. MINERAL DRESSING. Crushing, grinding and concentration of ores in preparation for extraction of valuable content.

2 lectures per week, session.....PROFESSOR O'SHAUGHNESSY

Reference books: Gaudin, Principles of Mineral Dressing (McGraw-Hill); Richards and Locke, Text Book of Ore Dressing (McGraw-Hill); Taggart, Handbook of Ore Dressing (Wiley).

294. MINING FIELD SCHOOL. This school is held for about three weeks immediately after the close of the Third Year. It consists of an inspection trip of the mines and plants of some important district, and serves to acquaint the student with engineering methods as applied to the mining industry. This is considered as a part of the Fourth Year curriculum.

295. MINING ENGINEERING PROBLEMS. Calculations in combustion, smelting and refining operations, mineral dressing, mine ventilation.

2 hours problems per week, session,.....PROFESSOR O'SHAUGHNESSY

FOURTH YEAR

293. MINE MAPPING. Calculation and plotting of mine surveys.

2 hours problems per week, first term.....PROFESSOR O'SHAUGHNESSY

297. MINING ENGINEERING. Sampling and mine valuation; explosives; rock excavation; haulage and hoisting; mine support; pumping; compressed air; ventilation; mine management; mining law and regulations.

2 lectures per week, first term; 3 lectures per week, second term.
PROFESSOR BLADON

Reference books: As for Course 291, and also Bullman, The Working of Coal and Other Stratified Minerals (Benn); Weeks, The Ventilation of Mines (McGraw-Hill).

298. MINE DESIGN. Calculations, evaluation and recommendations for putting a given property into operation; underground work, surface plant and mill.

3 hours problems per week, first term; 6 hours problems per week, second term.....PROFESSORS BLADON and O'SHAUGHNESSY

Reference books: As for Courses 291, 292, 297, 300, and also Baxter and Parks, Mine Examination and Valuation (Finnish Lutheran Book Concern).

300. MINERAL DRESSING. Flotation; cyanidation; coal washing; general plant design.

2 lectures per week, first term; 1 lecture per week, second term.
PROFESSOR O'SHAUGHNESSY

Reference books: As for Course 292, and also Rabone, Flotation Plant Practice (Mining Publications); Chapman and Mott, The Cleaning of Coal (Chapman and Hall); Gaudin, Flotation (McGraw-Hill); Dorr, Cyanidation and Concentration of Gold and Silver Ores (McGraw-Hill).

RESEARCH FELLOWSHIPS IN THE DEPARTMENT OF MINING ENGINEERING

There are three endowed research fellowships in the Department. These are awarded to graduates of the Department who show particular aptitude for advanced work, and are held in the Faculty of Graduate Studies and Research. Graduates of other universities are admitted to this Faculty, if qualified, but are not eligible for the fellowships mentioned.

DEPARTMENT OF PHYSICS

Professors.....A. N. SHAW, J. S. FOSTER

Associate Professor.....H. G. I. WATSON

Assistant Professors.....F. R. TERROUX, J. S. MARSHALL, E. R. POUNDER, ...

Lecturer.....A. I. MCPHERSON

Sessional Lecturers (1946-1947).....A. HENRIKSON, M. L. DE ANGELIS, D. G. DOUGLAS, A. MORRISON

Demonstrators (1946-1947):

E. N. Clark
B. M. Girdwood
Mrs. V. Harkness
D. M. Hunten
Mrs. F. L. Mitchell
Mrs. F. T. Webb
S. W. C. Young

Part-time Demonstrators (1946-1947):

A. C. Anderson
D. A. Anderson
J. C. Barron
G. A. Bartholomew
G. H. Bjorklund
W. S. Boyle
E. Brannen
S. W. Breckon
C. O. Cavell
R. L. Clarke
A. N. Dicks
P. de H. Eastcott
W. D. English
J. A. Flemming
D. J. Follett
J. S. Foster
N O. Fothergill
R. B. Fullerton
M. B. Goodwin
D. L. Gowing
M. M. Gransden
E. A. Greenberg
K. L. S. Gunn
D. N. Hogg
E. M. Holstein-Rathlou
G. W. Ilott
R. W. Jackson
K. C. Kent
J. D. Keys
D. D. Kitson
C. J. Konzuk
R. A. Logan
W. M. McLeish
J. S. Mamelak
B. Margolis
W. M. Martin
W. Michel
A. M. Munn
N. J. Nadler
R. J. Norton
W. M. Palmer
H. M. Patch
R. M. Pearce
P. M. Routly
Dr. L. Rowles
S. Schoner
R. W. Smith
M. G. Spankie
Dr. A. L. Thompson
A. M. Thurston
E. L. Tong
S. Wagner
F. G. R. Warren
T. E. Wixon
J. L. Wolfson
C. P. Woodward

First Year

311. (a) Heat, (b) Light and Sound (Arts and Science 22).
(a) Calorimetry; heat transfer; change of state; critical state; hygrometry, engines; elementary kinetic theory; thermodynamics. (b) Illumination; reflection; refraction; interference; nature and velocity of light; optical apparatus; vision; spectroscopy; polarimetry; nature and velocity of sound; pitch; loudness; quality; wave analysis; interference; resonance; vibrations; instruments; hearing.

3 lectures per week, session

Professor Marshall and Mr. Henrikson

Text-book: Duncan and Starling, Heat, Light and Sound (Macmillan).

Reference book: College Physics, Mendenhall, Eve, Keys and Sutton (Heath).

312. PHYSICS LABORATORY (Arts and Science 22L). Experiments illustrating main principles and topics discussed in Course 311; common thermal and optical measurements; recording scientific observations; preparing laboratory reports.

2 hours per week, session.....PROFESSOR TERROUX and DR. MCPHERSON

Text-book: Heat, Sound and Light Laboratory Manual (Renouf).

Note: Course 312 is an integral part of Course 311.

SECOND YEAR

315. ELECTRICITY AND MAGNETISM (Arts and Science 23). Fundamental principles and experimental basis of magnetism electrostatics, current electricity (D.C. and A.C.), electromagnetic induction, electrodynamics, theory of simple circuits, elementary electronics. Special attention is given to demonstrations, applications, theory of measurements, units, instruments, and numerical problems.

2 lectures and I hour voluntary tutorial per week, session.

PROFESSOR WATSON

Reference Books: Signal Training Manual, Vol. II, Part I, Electricity and Magnetism (H. M. Stationary Office); Page, Lessons in Electricity (Macmillan); Brown, Electricity and Magnetism (Holt); Zeleny, Elements of Electricity (McGraw-Hill); Starling, Electricity and Magnetism (Longmans Green).

316. PHYSICS LABORATORY (Arts and Science 23L). Illustrating main principles of Course 315. Theory and use of galvanometers, ammeters, voltmeters, bridges, potentiometers, resistances, capacitances, inductances, magnetometers, rectifiers, oscillators, oscillographs; limitations and accuracy of observations; significant figures.

3 hours per week, session.....PROFESSORS WATSON and POUNDER

Text-book: University Laboratory Manual, Electricity and Magnetism, Second Year.

Note: Course 316 is an integral part of Course 315.

434. ADVANCED HEAT (Arts and Science 34). Precision thermometry; calorimetry; measurement of fundamental thermal variables; measurement and theory of transfer of heat; change of state; equations of state: elements of kinetic theory; physical basis and mathematics of thermodynamics; thermal equilibrium of systems; engineering applications.

2 lectures per week, session.....PROFESSOR SHAW

Text-book: Roberts, Heat and Thermodynamics (Blackie).

Reference books: Kiefer and Stuart, Engineering Thermodynamics (Wiley); Lewis and Randall, Thermodynamics (McGraw-Hill); Zemansky, Heat and Thermodynamics (McGraw-Hill)

THIRD YEAR

318. ELECTRON PHYSICS (Arts and Science 35a). Fundamentals of electronics; practical applications; motion of ions and electrons in electric and magnetic fields; charge and mass of electron; thermionic emission; photo-electricity; electron optics; atomic structure; electron conduction in metals.

2 lectures per week, first term.....

Reference books: Millman and Sealy, Electronics (McGraw-Hill); Crowther, Ions, Electrons and Ionizing Radiations (Arnold); Elect. Eng. Staff, M.I.T., Applied Electronics (Wiley).

320. APPLIED GEOPHYSICS (Arts and Science 47). Introduction to geophysical methods of prospecting and of investigating sub-surface structures; theories, uses and limitations of various magnetic, electrical, gravitational and seismic methods; practical operation of instruments; field results are obtained and analysed; field experience, when possible.

1 lecture per week, session.....PROFESSOR WATSON

Text-book: Eve and Keys, Applied Geophysics, 2nd edition (Cambridge Univ. Press). *Reference book:* Ambronn, trans. Cobb, Elements of Geophysics (McGraw-Hill); Heiland, Geophysical Exploration (Prentice-Hall).

431. STATICS, DYNAMICS OF A PARTICLE AND RIGID DYNAMICS (Arts and Science 31).

(a) Dynamics of a particle in one and two dimensions; motion of a pair of particles; dynamics of rigid bodies; mass systems.
3 lectures per week, first term.....PROFESSOR TERROUX

(b) Central orbits; elements of rigid dynamics in two and three dimensions; Lagrange's equations; oscillations about equilibrium positions.
3 lectures per week, second term.....PROFESSOR GILLSON

Text-books: Lamb, Statics (Cambridge Univ. Press); Lamb, Dynamics (Cambridge Univ. Press).

432. PROPERTIES OF MATTER (Part of Arts and Science 32). Surface tension; viscosity; diffusion; gravitation.

1 lecture per week, second term.....PROFESSOR TERROUX

Reference books: Newman and Searle, General Properties of Matter (Benn); Champion and Davy, Properties of Matter (Blackie).

445. ADVANCED LIGHT (Arts and Science 45 and 45L). Geometrical and physical optics; electromagnetic theory; interference; diffraction; polarization; simple spectrum analysis; determination of fine

structure of spectral lines; Zeeman effect; theory and use of optical apparatus.

2 lectures per week, first term; 1 lecture per week, second term.

3 hours laboratory per week, session.....DR. MCPHERSON

Text-book: Houston, Light (Longmans Green).

Reference books: Robertson, Physical Optics (Van Nostrand); Wood Physical Optics (Macmillan); Drude, Optics (Longmans Green).

FOURTH YEAR

321. ACOUSTICS OF BUILDINGS. Acoustical conditioning of buildings, old or new; bearing on architectural design; properties, testing and choice of materials for absorption, insulation, reflection or modification of sound. Given in 1948-49, 1950-51, etc.

2 lectures per week, first term.....PROFESSOR WATSON

Text-book: Watson, Acoustics of Buildings (Wiley).

433. ELECTRICAL MEASUREMENTS (Arts and Science 33 and 33L). Direct-current instruments and measurements; galvanometer theory; instrument calibration; alternating-current circuit theory; operational methods; applications; measurements at power, audio, and radio frequencies; measurements with Lecher wires; electronic devices; theory of circuits; elementary radio engineering; construction and testing of electrical devices; absolute measurements.

2 lectures and 4 hours laboratory per week, session...PROFESSOR WATSON

Reference books: Laws, Electrical Measurements (McGraw-Hill); Hague, Alternating Current Bridge Methods (Pitman); Campbell and Childs, The Measurement of Inductance, Capacitance and Frequency (Macmillan); Reich, Theory and Application of Electron Tubes (McGraw-Hill); Terman, Radio Engineers' Handbook (McGraw-Hill).

441. MATHEMATICAL PHYSICS (Arts and Science 41). Potential theory; hydrodynamics: conduction of heat; acoustics; elasticity; electromagnetic theory; theory of origin of spectra; calculations in nuclear physics. Same as course 204.

3 lectures per week, session.....PROFESSORS GILLSON and FOSTER

Reference books: Houston, Introduction to Mathematical Physics (Van Nostrand); von Karman and Biot, Mathematical Methods in Engineering (McGraw-Hill); Margenau and Murphy, The Mathematics of Physics and Chemistry.

442. Electromagnetic Theory (Arts and Science 42). Vector treatment of electro- and magneto-statics; vector calculus; Maxwell's equations; boundary conditions; Poynting vector; electric waves; reflection and refraction of plain waves; propagation of waves in metals and in dispersive media; wave guides with and without attenuation; measurement technique; radiation from a dipole and from an antenna.

1 lecture per week, session.....Professor Watson

Reference books: Sarbacher and Edson, Hyper and Ultra-High Frequency Engineering (Wiley); Harnwell, Principles of Electricity and Electro-Magnetism (McGraw-Hill); Pierce, Electric Oscillations and Electric Waves (McGraw-Hill); Skilling, Fundamentals of Electric Waves (Wiley).

Note: Course 44b, Faculty of Arts and Science, will be given in 1947-48, second term, in place of Course 443.

443. Atomic Physics (Arts and Science 43 and 43L). Classic experiments of atomic physics; determination of physical properties and constants of atoms, ions and electrons; mass-spectrograph; elements of thermionics and of photo-electricity; X-ray analysis; cosmic rays; atomic structure radiation, absorption and emission; advent of quantum theory and of wave-mechanics; philosophical problems in modern phpsics.

2 lectures and 3 hours laboratory per week, session.

Professors Shaw and Marshall

Text-book: Crowther, Ions, Electrons and Ionizing Radiations (Arnold).

Reference books: Richtmeyer, Introduction to Modern Physics (McGraw-Hill); Strong, Procedures in Experimental Physics (Prentice-Hall); Brown, Foundations of Modern Physics (Wiley); Stranathan, The "Particles" of Modern Physics, (Blakiston).

REGULATIONS CONCERNING STANDING AND PROMOTION

GENERAL

(1) Students proceeding to a degree are classed as undergraduates or conditioned undergraduates. Undergraduates are those who, having passed all entrance requirements, have also at the close of any session passed the examinations in all the subjects of their courses or who, at the opening of the following session, have removed all conditions by passing supplemental examinations in the subjects in which they failed Conditioned undergraduates are those who have failed to remove all their conditions as above.

(2) No student proceeding to a degree is permitted to register in any year if he is conditioned in subjects totalling more than 150 marks.

(3) No undergraduate conditioned in any entrance requirement is permitted to register for any Second Year courses, nor is any undergraduate conditioned in any First or Second Year subject permitted to register for any Third or Fourth Year courses, respectively.

(4) Partial students are those who are not proceeding to a degree. Such students may be admitted to classes, provided that they have obtained the permission of the chairman of each department concerned, and that their courses are approved by the Committee on Registration, Standing and Promotion.

(5) If a partial student wishes to obtain undergraduate standing in order to proceed to a degree, he will not be given credit for any subjects taken until he has passed examinations in such subjects, has had his case reviewed by the Committee on Registration, Standing and Promotion and on the recommendation of this Committee has had his case approved by Faculty.

(6) Partial students are not eligible to take supplemental examinations.

(7) No Fourth Year student is allowed a supplemental examination in any subject in the period between the opening of the second term and the date of Convocation.

(8) No student may repeat the work of more than one year. Students who have failed their years and who have cleared their records by examinations are considered as having repeated the work of that year.

First Year

All students of the First Year taking the course for the first time, who have pursued their courses of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four subjects of the First Year, in which standing is determined by sessional examinations, or in four such subjects aggregating 350 possible marks or over, will not be permitted to register in the Second Year for the following session.

Such students may, at the discretion of the Faculty, be permitted to repeat the First Year, and if they do so they may obtain exemption in any draughting-room or laboratory course in which they have obtained 65% or more. In no case will exemption from any final examination be granted to a student who is repeating his year.

Any student repeating the work of the First Year, who does not obtain an average of 60% in all repeated courses and final examinations of the First Year, will be permanently debarred from the Faculty.

Any student who fails in the First Year for the first time, and does not register in the First Year in the following session, may register in the Second Year in a subsequent session if in the interim he has cleared his record.

In order to clear his record he must satisfy the following requirements:

1. He must write examinations in all of the subjects of the First Year in which he obtained less than 65%, and must obtain an average of not less than 60% in these examinations.

2. These examinations must all be written either (a) during a single period of supplemental examinations in any September following the session from which the student has been debarred, or (b) during the regular examination periods of a single session, in which case the student may defer the mid-term examinations to the following September but will not be permitted to defer any spring examinations.

Second Year

All students of the Second Year taking the course for the first time who have pursued their courses of study without serious interference due to personal illness, domestic affliction or urgent affairs, and who fail in more than four subjects of the Second Year, in which standing is determined by sessional examinations, or in such subjects aggregating over 400 possible marks, will not be permitted to register in the Third Year for the following session.

Such students may, at the discretion of the Faculty, be permitted to repeat the Second Year, and if they do so they may obtain exemption in any draughting-room or laboratory course in which they have obtained 65% or better. In no case will exemption from any final examination be granted to a student who is repeating his year.

Any student who fails the Second Year for the first time, and does not register in the Second Year in the following session, may register in the Third Year in a subsequent session if in the interim he has cleared his record.

In order to clear his record he must satisfy the following requirements:

1. He must write examinations in all of the subjects of the Second Year in which he obtained less than 65%, and must obtain an average of not less than 60% in these examinations.

2. These examinations must all be written either (a) during a single period of supplemental examinations in any September following the session from which the student has been debarred, or (b) during the regular examination periods of a single session, in which case the student may defer the mid-term examinations to the following September but will not be permitted to defer any spring examinations.

McGILL UNIVERSITY

MONTREAL

FACULTY OF MEDICINE

1947-1948

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McGILL UNIVERSITY

FACULTY OF MEDICINE

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L.

Dean of the Faculty.....Frederick Smith, M.A., M.B., B.Ch., M.R.C.P., M.R.C.S.

Secretary of the Faculty.....D. S. Fleming, B.A., M.D., C.M. D.P.H.

Comptroller and Executive Assistant to the Principal.....S. H. Dobell, D.S.O.

Bursar.....W. Bentley, C.G.A., A.C.I.S.

Registrar.....T. H. Matthews, M.A.

University Librarian.....Richard Pennington, B.A.

Honorary Medical Librarian.....R. L. Stehle, M.A., Ph.D.

Osler Librarian and Director of the Museum of the History of Medicine.W. W. Francis, A.B., M.D.

Assistant Secretary of the Faculty.....Miss G. D. Mudge

A complete list of the teaching staff of the University, including the Faculty of Medicine, is printed as a separate announcement, which may be obtained from the Registrar's Office.

FACULTY OF MEDICINE

The one hundred and fifteenth session of the Faculty will open on September 3rd, 1947, for students of the 1st year.

REQUIREMENTS FOR ENTRANCE

1. (a) *Total Academic Credits:*

The minimum requirement for admission to the medical course is the satisfactory completion of three full years of study in a recognized college or Faculty of Arts and Science (or the equivalent thereof). This minimum requirement may be regarded as equivalent to a total of 90 semester hours.

(b) *Scientific Requirements:*

In the scientific branches, certain subjects are specifically required:

Chemistry, two full courses, including General Chemistry and Organic Chemistry, with laboratory work.

Physics, one year with laboratory work.

Biology, or *Zoology*, one year with laboratory work. (Of this, a half year must consist of Zoology.)

(c) *Cultural Requirements:*

These must be selected in such a way as to be in harmony with the requirements for the degree of B.A. or B.Sc. at the college where the courses are taken. These would commonly include credits in English Literature and in Composition, Mathematics and at least one modern language. It is advisable for each applicant to present evidence of such preparation.

(d) All candidates for admission to the Medical Faculty are required to take the Graduate Record Examination, or furnish a satisfactory explanation of reasons why they are unable to do so.

2. In selecting courses, in addition to the specific requirements listed above, the intending medical student should plan his pre-medical course as a whole, and in accordance with a definite educational objective. Emphasis should be laid on the broad educational value and the intellectual training afforded, rather than on the factual content of such pre-medical curricula; the student is therefore advised to plan his course in such a way as to provide more than elementary training in some definite

field of learning which appeals to him; this major field may be selected from the Natural or Social Sciences or the Humanities. Certain subjects which though not essential have been found valuable in medical study, and which may be included as electives if the curriculum in the major field permits, are Psychology, Sociology and Genetics.

In general, students are advised not to anticipate medical school courses in Physiology, Histology, Bacteriology and Biochemistry at the expense of a fundamental training as outlined above.

On the other hand, for students who desire a preparation in excess of the minimum requirements, a considerable degree of specialization in the sciences, such as Honours graduation, or a Master's degree, in Physics, Chemistry, Biochemistry, Biology, Physiology, or Bacteriology, may prove to be desirable and advantageous.

The students' attention is called to the memorandum printed in the Announcement of the Faculty of Arts and Science, for the guidance of pre-medical students.

Candidates for admission shall furnish evidence that they have satisfied the matriculation requirements of the Licensing Body where they wish to practise.

EQUIVALENT STANDING

A student of another Medical School who desires to be admitted to the Faculty of Medicine of this University with equivalent standing is required to submit an official statement of his preliminary education and of the medical course he has followed and the standing he has obtained. This should be accompanied by a calendar of the Medical School in which he has studied, giving a full statement of the courses of study, and by a certificate of moral character and conduct.

The equivalent courses of study in schools accepted by this University shall be determined from time to time. Acceptance of a course of study as equivalent may not include the examination in that subject held by the accepted school, but the student may be required to pass such examinations, individual or comprehensive, as may be required by the Faculty.

APPLICATION FOR ADMISSION

Application for admission to the Faculty of Medicine must be made upon the regular application form which may be obtained from the Secretary of the Faculty.

As the number of students in each class is limited, application should be made early and in any case not later than March 1st.

A fee of $25.00 is payable by the applicant within ten days of the receipt of notice that he has been accepted for admission. If the applicant registers within the prescribed registration period in September, this fee will be credited on his University fees. If he fails to register, the fee lapses, and will be used by the University to meet the cost of its administration and overhead charges in caring for applicants who do not finally register.

A personal interview with the Dean or Secretary of the Faculty, when possible, is advisable.

REGISTRATION

Students in the Faculty of Medicine will register at the Registrar's Office on Tuesday, September 2nd, 1947. Those who register after this date will be required to pay a late registration fee of $5.00 if they register during the first week of the session and $10.00 if they register during the second. The fee will not be refunded except for satisfactory reasons and by authorization of the Faculty. No student will be admitted after the fifteenth day of the session except by special permission of the Faculty.

FEES

The University reserves the right to make changes without notice in its published schedule of tuition, board and residence, and other fees.

UNIVERSITY FEES

1. Regular Students.

Annual fee for British students	$378.00
By instalments: each of two instalments	191.50
Annual fee for Non-British students	478.00
By instalments: each of two instalments	241.50

2. Repeating a Year.

British students repeating a year pay	378.00
Non-British students repeating a year pay	478.00

3. Partial Students.

Qualified students may be admitted as partials to one or more courses on payment of special fees.

4. Ad Eundem Fee.

Students entering any year above the first pay a special *ad eundem* fee of $10.00

5. Diploma of Public Health Fees.

The fee for the graduate course in Public Health, including laboratory and outdoor work, as well as student Health Service fee, is $250.00, of which $25.00 is to be deposited on acceptance of application.

6. Diploma of Tropical Medicine Fees.

The fee for the course leading to this diploma is $50.00 if preceded by the D.P.H. course at McGill University or $100.00 for those already holding the D.P.H., taken elsewhere. For all others the fee is $150.00.

STUDENT FEES

Fees for the Support of Student Organizations.

Regular students (men)	$13.00
Regular students (women)	13.00
Partial students	5.00

DATES OF PAYMENT

Fees are due and payable at the Bursar's Office between the hours of 9 a.m. and 4 p.m. on the following dates:—

Tuesday, September 2nd, to Thursday, September 4th, inclusive, or, if desired, fees may be remitted by mail before the above dates. The second instalment of tuition fees is due and payable on February 1st. An additional $2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration failing which they become subject to the provisions of the above paragraph.

Immediately after the prescribed dates for the payment of fees the Bursar will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

All fees are payable in Canadian currency.

Domicile will in general determine whether a student pays the British or Non-British fees. A student who is uncertain which rate he will be required to pay should consult the Registrar.

For further information and for a list of special fees see the General Information Pamphlet included in this Announcement.

Microscopes

Each student, on beginning his studies, is required to provide himself with a first-class microscope for laboratory and private study throughout his course. The microscope must be of substantial construction and be provided, as a minimum, with the following accessories:—2/3, 1/6, and 1/12 oil immersion objective, and a substage condenser. Such an instrument will last a lifetime and is an essential part of the equipment of a practitioner in medicine. Suitable microscopes may be secured through local dealers. Information regarding terms may be obtained from the Dean's office.

BOARD AND RESIDENCE

For details of board and residence and an estimate of expenses, see the General Information Pamphlet included in this Announcement (pages 205 to 213).

HEALTH SERVICE

For details of the Health Service and Medical Examinations see the General Information Pamphlet included in this Announcement (page 203).

COURSES FOR THE DEGREE OF M.D., C.M.

The minimum period of professional training required by the University as a qualification for the independent practice of Medicine shall be five years, including

a. four years of medical study in the University leading to the degree of M.D., C.M.; and

b. one year of interneship in an approved hospital.

OR

one year of further medical study in the Faculty of Medicine of McGill University or at another medical school approved by it.

While the Faculty Administration exercises a general supervision of arrangements for interneships, the Faculty of Medicine assumes no responsibility to provide an interneship for any student.

A certificate that his medical education is completed and that he is eligible to sit for the examination of a licensing board shall not be issued to any graduate until the University is in possession of satisfactory evidence that he has completed the full requirements.

There are three sessions of thirty-six weeks each and one session (final session) of thirty-two weeks, all exclusive of examination periods. The sessions usually begin the first Tuesday after the first Monday in September (Labour Day) and continue until the first week of June in the first three years and to the first week in May in the final year.

The academic session is divided into four terms in the first and fourth session and into three terms in the second and third sessions. The minimal period of study for the degree of M.D., C.M., is, therefore, four sessions of study comprising one hundred and forty weeks exclusive of examination periods.

The arrangement of the principal subjects of instruction is usually as follows:

First Session

Anatomy (including Histology and Embryology), Physiology, Biochemistry, Psychobiology and Medical Sociology, Introduction to Medicine.

Second Session

Pharmacology, General Pathology, Bacteriology and Immunology, Parasitology, Laboratory Diagnosis, Medicine, Surgery, Paediatrics, Obstetrics, Health and Social Medicine, Psychiatry.

Third Session

Special Pathology, Health and Social Medicine, Medicine, Surgery, Obstetrics and Gynæcology, Pædiatrics, Psychiatry, Therapeutics, Ophthalmology, Oto-laryngology, Medical Jurisprudence, Radiology, Anaesthesia.

FOURTH SESSION

Medicine,* Surgery,* Obstetrics and Gynæcology, Psychiatry, Pædiatrics, Ophthalmology, Otolaryngology, Radiology, Neurology and Neuro-Surgery.

*In these subjects are included the following:—

Medicine—Dermatology, Clinical Therapeutics.

Surgery—Orthopædics, Urological Surgery, Anæsthesia.

EXAMINATIONS

The examinations taken within the Medical Faculty are divided into two groups, namely, major examinations and minor examinations. Major examinations are the final examinations in Anatomy (Embryology), Histology, Physiology, Biochemistry, Pharmacology, Bacteriology and Immunology, Pathology, Health and Social Medicine, Pædiatrics, Medicine, Surgery, Obstetrics and Gynæcology, Psychiatry.

Minor examinations include the final examinations in Parasitology, Laboratory Diagnosis, Medical Jurisprudence, Therapeutics, Ophthalmology, Otolaryngology, Radiology and examinations preliminary to the final major examinations.

A student who fails in any major examination will be required before he sits a supplemental examination to present to the Dean's office from the senior professor of the Department concerned a certificate that the student has taken sufficient extra tuition as would indicate that he has reviewed the subject and is a suitable candidate for the supplemental examination.

There is a strict difference between the importance of a major and a minor examination. If a student fails in the supplemental of a major examination, there are definite restrictions as hereinafter set forth, while failure in the supplemental of a minor examination permits the student to carry conditions as are hereinafter laid down.

A student who fails in the supplemental of one (or two) minor examination may proceed with other subjects in the following year, carrying such subject as a condition, but may not sit any subsequent major examinations until such conditions have been removed, nor may more than two conditions be carried at one time.

All conditions must be removed by the end of the first term (November) in each session when additional supplemental examinations will be held. Failure in any of these will require the student to revert to the previous year and to repeat the courses of the Winter and Spring terms.

A student who fails in the supplementals of three or more minor examinations in any one session must repeat this session or may be asked

to retire, as may be decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it be decided that he should retire.

A failure in the supplemental of a major examination will require the student to repeat the course (repeat the year), and no student may repeat such a course more than once. Any student who fails in the supplementals of two major examinations in any one year shall be required to retire without the privilege of further supplementals.

A student is not allowed supplementals in three major examinations in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student is not allowed supplementals in two major and one minor examination in any one session. He will be required to repeat his year or retire as decided by the Promotion Committee, but he may appear before the Promotion Committee to plead his case if it be decided that he should retire.

A student in the final year may take a supplemental examination in one subject only at the end of the following September, but must present a certificate from the senior professor of the Department concerned that he has taken at least three months' extra tuition in this subject in one of the teaching hospitals of McGill Faculty of Medicine. If he should fail in this supplemental examination, he must repeat the year of study and pass all the major examinations at the completion of the session.

A student in the final year who fails in two subjects will not be permitted supplementals but must repeat the year or retire as decided by the Promotion Committee, from whose decision there shall be no appeal.

A student will not be allowed to repeat a year more than once nor may he repeat a subsequent year if such repetition has been due to failure in examinations, except on special recommendation of the Promotion Committe, acting upon the motion of the representatives on the committee of the department concerned.

A student who has been permitted to repeat his year shall be required to make a C+ grade, which for this purpose is considered to be 65%, or he will not be permitted to continue his course.

A schedule of the times of major and minor examinations shall be published as a supplement to these ordinances at the beginning of each academic session.

Examinations, tests, reviews, etc., may be held during the session by any department in its time of instruction, provided that no more than

twenty-four (24) hours' notice is given. It is understood that such examinations, tests or reviews are conducted for the benefit of the student in order that he may have experience in the requirements of the sessional examinations, and further, that he and his teachers may know how he is progressing in his studies.

There shall be two Promotion Committees. The First Committee shall consist of representatives of the subjects of Anatomy, Biochemistry, Histology, Physiology, Pharmacology, Bacteriology, Parasitology, Pathology, and Endocrinology, appointed by the Dean, and the Dean and Secretary *ex officio*. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the first and second years. The second Committee shall consist of representatives of the Departments of Pathology, Bacteriology, Health and Social Medicine, Medicine, Surgery, Obstetrics and Gynæcology and Pædiatrics, appointed by the Dean, and the Dean and Secretary *ex officio*. This Committee shall pass on all cases of students who fail to satisfy examination requirements in the third and fourth years.

All results of examinations will be given out by the Dean's office, after they have been passed upon by the Promotion Committee. It is an absolute rule that no examination results shall be communicated by any other channel.

The Faculty reserves the right to require the withdrawal of any student at any time if, in the opinion of his instructors, he is incompetent.

GRADING

At the conclusion of each course, students are graded in five groups as follows:—

A = Excellent
B = Good
C = Fair
D = Doubtful
E = Failure

In reporting the grading, the names of those students who attain "A" standing are arranged in order of merit; in all other grades the arrangement is alphabetical.

The grade assigned to a student is based upon the results of the Final Examination, but the instructor also takes into account the record of the work done throughout the course.

The quality of the English used by a candidate is taken into account in determining his standing in all examinations.

FELLOWSHIPS, SCHOLARSHIPS, BURSARIES, MEDALS, PRIZES, AND LOAN FUNDS

Details of fellowships, scholarships, bursaries, medals, and prizes open to undergraduate and graduate students in Medicine, and of the University Loan Fund may be found in the Scholarships Announcement.

REQUIREMENTS FOR THE DEGREE OF M.D., C.M.

1. Every candidate for the degree of Doctor of Medicine and Master of Surgery in this University must be at least twenty-one years of age and of good moral character.

2. He must have fulfilled all the requirements for entrance to the Faculty of Medicine and have attended courses of instruction for four full sessions of not less than eight months each in this University or in some other university, college or school of Medicine, approved by this University. (See page 1212.)

3. No one is permitted to become a candidate for the degree who has not attended at least one full session at this University.

4. Every candidate for the degree must have passed all of the required examinations in the subjects comprising the Medical course.

5. He must have attended during at least three sessions of nine terms the practice of the Royal Victoria Hospital or the Montreal General Hospital, or of some other hospital (with not fewer than one hundred beds) approved by this University; and must have acted as clinical clerk for six months in Medicine and six months in Surgery and have fully reported upon at least ten medical and ten surgical cases.

6. He must also have attended during two terms the practice of the Maternity Hospital or other lying-in hospital approved by the University, and have acted as assistant in at least twenty cases.

7. Every candidate must also have administered anæsthetics, under direction, at least six times, and have assisted at not less than six autopsies.

REQUIREMENTS FOR LICENCE TO PRACTISE

Intending students are reminded that a University degree in Medicine does not in itself confer the right to practise the profession of medicine. In each Province of Canada and in each one of the United States the right of licensing is vested in a Licensing Body which has its special laws and requirements; in many cases a special standard of general education is insisted upon before *beginning* the study of medicine. One of the requirements in several provinces is that the entrance qualifications of the student must be registered with the provincial licensing body for five years before a license to practise can be obtained.

N.B.—In order that disappointment and loss of time may be avoided, the University requires Canadian students to register with the licensing body of their home province before beginning their medical course.

Full information as to the requirements for registration in the various provinces may be obtained from the Registrars of the Provincial Medical Boards, as follows:—

QUEBEC—Dr. J. Paquin, 1896 Dorchester St. West, Montreal.

ONTARIO—Dr. Robert T. Noble, 566 University Ave. Toronto, Ont.

NEW BRUNSWICK—Dr. J. M. Barry, 182 Princess St., Saint John, N.B.

NOVA SCOTIA—Dr. H. L. Scammell, 196 Atlantic St., Halifax, N.S.

PRINCE EDWARD ISLAND—Dr. I. J. Yeo, Charlottetown, P.E.I.

MANITOBA—Dr. W. G. Campbell, 605 Medical Arts Building, Winnipeg, Man.

ALBERTA—Dr. W. Bramley Moore, 207 Alexandra Block, Edmonton, Alta.

SASKATCHEWAN—Dr. J. G. K. Lindsay, 415 Birks Bldg., Saskatoon, Sask.

BRITISH COLUMBIA—Dr. A. J. MacLachlan, 203 Medical-Dental Building, Vancouver, B.C.

The Registrar for Newfoundland is Dr. C. Macpherson, P.O. Box 5121, St. John's, Nfld.

DOMINION REGISTRATION

In order to take the examination of the Medical Council of Canada a candidate must have the licence of a Canadian province, or he must present a certificate from the Registrar of a Provincial Medical Board that he holds qualifications accepted and approved of by the Medical Board of that province.

Full information may be obtained by writing to the Registrar, Dr. J. Fenton Argue, 180 Metcalfe Street, Ottawa, Ontario.

GENERAL COUNCIL OF MEDICAL EDUCATION AND REGISTRATION OF GREAT BRITAIN

The entrance requirements in Medicine of this University are accepted by the General Medical Council of Great Britain. Graduates of this University who desire to register in England are exempted from any examination in preliminary education on production of the McGill Matriculation certificate. Certificates of this University for attendance on lectures, practical work and clinics are also accepted by the various examining boards in Great Britain.

Detailed information may be obtained from the Registrar, General Council of Medical Education and Registration, 44 Hallam Street, Portland Place, London, W.1, England.

COURSES OF INSTRUCTION

ANATOMY

Robert Reford Professor and Chairman of the Department . . . . . C. P. MARTIN
Associate Professor of Histology . . . . . C. P. LEBLOND
Assistant Professors of Anatomy . . . D. S. FORSTER, S. M. FRIEDMAN
Lecturer in Anatomy . . . . . E. WALTER WORKMAN
Sessional Lecturer in Anatomy . . . . . R. M. H. POWER
Teaching Fellow . . . . . J. GROSS

REQUIRED COURSES

1 GROSS ANATOMY.

Five hours lectures and fifteen hours laboratory work per week during the Autumn, Winter and Spring terms of the First Medical Year.

2. APPLIED ANATOMY.

One hour per week lecture and demonstration during the Winter and Spring terms of the Third Medical Year This course is conducted mainly by clinicians from the Royal Victoria and Montreal General Hospitals.

(Suspended for duration of the war.)

Text-books:—Gray's "Anatomy" (English Edition) or Cunningham's "Text-Book of Anatomy."

Practical Manuals:—Cunningham's "Manual of Practical Anatomy;" Johnston's "Synopsis of Regional Anatomy."

Optional Texts:—Quain, Piersal, Spalteholz Atlas, Fraser's "Anatomy of the Human Skeleton," Buchanan, Fraser and Robbins, Larsell, Ramson .

ELECTIVE COURSES

The Department provides, as far as material will permit, facilities for advanced work or revision. The Chairman of the Department should be consulted by anyone wishing to undertake work of this nature.

3. ADVANCED NEURO-ANATOMY.

Lecture and laboratory work on two evenings per week from October to December. By arrangement the course is held in the Neurological Institute under the direction of Dr. McNaughton, assisted by Dr. Kershman. The class is limited to ten. The course consists of the construction of plasticine models of the brain, based on individual study of the brain and brain stem.

4. PHYSICAL ANTHROPOLOGY.

Lectures and practical courses will be arranged for students when required.

MICROSCOPIC ANATOMY

Required Course

5. Histology.

The study of the histological structure of the body. Two hours lectures and six hours laboratory work per week during the first 28 weeks of the First Medical Year.

Text-book:—Bailey, "Text-Book of Histology."

Optional Texts:—Cowdry, Lewis, and Bremer, Jordan, Maximow and Bbom (Schafer).

Elective Course

6. Experimental Morphology.

Bi-weekly seminar. In this course current problems and discoveries in Experimental Morphology are discussed by members of the staff and graduate students.

EMBRYOLOGY

Required Course

The Study of Human Developmental Anatomy.

One hour per week lecture and three hours per week laboratory work during second half of the First Medical Year.

Text-book:—Arey, "Developmental Anatomy."

Optional Texts:—Jordan, Simkins, Bailey and Millar, Keith, Fraser.

PHYSIOLOGY

Joseph Morley Drake Professor and Chairman of the Department	H. E. Hoff
Research Professor	B. P. Babkin (Post Retirement)
Associate Professor	N. Giblin
Assistant Professors	S. Dworkin Ronald Grant* Kathleen Terroux
Lecturer	Peter Kellaway
Demonstrators	Armine Alley Steward R. Cooper R. F. Taylor

Required Courses

1. First Year Lectures.

Tuesday, Thursday, Saturday, at 9 a.m. (beginning in October).

1P. First Year Laboratory.

Six hours a week during last 16 weeks.

Text-books:—

Systematic Physiology—Human.

Howell, Textbook of Physiology; Starling (and Evans), Human Physiology; MacLeod (and Bard), Physiology in Modern Medicine.

*On leave of absence.

Clinical Physiology.

Samson Wright, Applied Physiology; Wiggers, Physiology in Health and Disease: Best and Taylor, Physiological Basis of Medical Practice.

OTHER COURSES

(Available only for students who have obtained Honours in the Required Courses, and by application to the Chairman of the Department.)

3. ADVANCED LECTURES.

3P. ADVANCED LABORATORY

BIOCHEMISTRY

Professor and Chairman of the Department ..... D. L. THOMSON

Associate Professors ..... R. D. H. HEARD, O. F. DENSTEDT

Assistant Professor ..... K. A. C. ELLIOTT

Sessional Lecturer ..... JUDITH COHEN

COURSES OFFERED IN BIOCHEMISTRY

FIRST YEAR

BIOCHEMISTRY 1. Mon., Wed., Fri., at 9 a.m. (beginning in October).

1L. Laboratory: Six hours a week October to February.

Drs. Thomson and Heard

Text-books:—Bodansky, "Introduction to Physiological Chemistry" (Wiley); Cameron, "Text-book of Biochemistry" (Macmillan); Williams, "Text-book of Biochemistry" (van Nostrand); Schmidt and Allen, "Fundamentals of Biochemistry" (McGraw-Hill); Mitchell, "Text-book of Biochemistry" (McGraw-Hill).

Other courses offered by the Department are listed in the Announcements of the Faculties of Arts and Science, and of Graduate Studies and Research.

PATHOLOGY

Strathcona Professor and Chairman of the Department ..... G. LYMAN DUFF

Associate Professor ..... THEO R. WAUGH

Assistant Professors ..... ROBERT H. MORE, J. E. PRITCHARD

Lecturers ..... D. C. WILSON, W. E. TORESON, W. H. MATHEWS, F. W. WIGLESWORTH

Demonstrators ..... W. E. FINKELSTEIN, R. C. ROSS

Sessional Demonstrator ..... M. A. SIMON

Fellows ..... G. J. COLOVIRAS, A. A. GORDON, S. D. KOBERNICK, J. D. RUBLEE

Required Courses

1. Course in General Pathology (Second Year).

   A. Two lectures per week (with epidiascopic and microscopic demonstrations) during the Winter and Spring terms (52 lectures).
   Professor Duff

   B. Two practical laboratory classes per week during the Spring Term (80 hours practical work).
   Dr. Toreson and Demonstrators

2. Course in Special Pathology (Third Year).

   A. Two lectures per week during the Autumn, Winter and Spring Terms (72 lectures).
   Professor Duff, Professor Waugh, Professor More and Lecturers
   Lecturers.

   B. Two practical laboratory classes per week during the Winter and Spring Terms (96 hours practical work).
   Professor Duff and Staff

   C. One demonstration of gross pathological material per week to students in small groups of 15 each, during Autumn, Winter and Spring Terms (36 hours).
   Lecturers and Demonstrators

3. Course in Applied Pathology (Third and Fourth Years.)

   A. Pathological Conferences with demonstrations of current autopsy material. Once a week during the Autumn, Winter and Spring Terms (54 hours).....Professor Duff

   B. Group instruction in performance of autopsies with demonstrations of autopsy findings, during Autumn, Winter and Spring Terms. Time according to material.
   Pathological Institute..... Professor Duff and Dr. Wilson
   Montreal General Hospital. . ..Dr. Pritchard and Dr. Mathews
   Children's Memorial Hospital.....Dr. Wiglesworth

Text-books:—MacCallum, A Text-Book of Pathology (Saunders); Karsner, Human Pathology (Lippincott); Boyd, Text-Book of Pathology (Lea & Febiger); Muir, Text-Book of Pathology (Arnold); Moore, Text-Book of Pathology (Saunders);

Reference Books.

General:—Bell, Text-Book of Pathology (Macmillan); Boyd, Surgical Pathology (Saunders); Boyd, Pathology of Internal Diseases (Lea & Febiger); Forbus, Reaction to Injury (Williams & Wilkins); Reimann,

Kaufmann's Pathology (Blakiston); Smith & Gault, Essentials of Pathology (Appleton Century); Ewing, Neoplastic Diseases (Saunders); Willis, The Spread of Tumours in the Human Body (Churchill);

Special:—Naegeli, Blutkrankheiten und Blutdiagnostik, (Julius Springer); Whitby & Britton, Disorders of the Blood (Churchill);

Biggart, Pathology of the Nervous System (Livingstone); Buzzard and Greenfield, Pathology of the Nervous System (Churchill); Freeman, Neuropathology (Saunders);

Novak. Gynæcological & Obstetrical Pathology (Saunders);

Geschikter & Copeland, Tumours of Bone (American Journal of Cancer);

Farber, The Post Mortem Examination (Charles Thomas); Mallory, Pathological Technique (Saunders); Saphir, Autopsy Diagnosis and Technique (Hoeber).

BACTERIOLOGY AND IMMUNOLOGY

Professor and Chairman ..... E. G. D. MURRAY
Professor ..... FREDERICK SMITH
Assistant Professors ..... C. D. KELLY, D. S. FLEMING, G. G. KALZ, J. W. STEVENSON
Lecturers ..... J. DE VRIES, G. D. DENTON, D. S. NUNES
Demonstrator (Teaching Fellow) ..... M. J. KAHNKE
Research Associate ..... CATHERINE MACPHERSON

COURSES

All lectures and laboratory courses are given in the Department of Bacteriology (Pathological Institute).

1. ELEMENTARY MEDICAL BACTERIOLOGY AND IMMUNOLOGY.

   30 Lectures and 63 hours practical work commencing September, 1st Medical Term 2nd Year.

   Available to Medical students on the satisfactory completion of their studies in Anatomy, Physiology, Histology and Biochemistry.

2. APPLIED MEDICAL BACTERIOLOGY AND IMMUNOLOGY AND THE PROCESSES OF INFECTIOUS DISEASES.

   20 Lectures and 40 hours of demonstrations commencing November 15th, 2nd Medical Term 2nd Year.

3. BACTERIOLOGY AND IMMUNOLOGY for Honours B.Sc. Degree.

The class is limited in size and priority is given to Honours students in their fourth year. Students in the Faculty of Graduate Studies are admitted only if they have suitable qualifications and if there are vacancies.

77 Lectures and 308 hours practical work with 50 hours discussion periods throughout the year (3 full courses). Biochemistry 5 (Lectures only) is compulsory. One other course is to be selected by the students.

Students must provide themselves with microscopes; these can be hired from the Purchasing Department.

4. ELEMENTARY BACTERIOLOGY. One full course.

43 Lectures and 81 hours of practical work.

Available to the students of the Faculty of Arts and Science and to Graduate Students.

Students must provide themselves with microscopes; these can be hired from the Purchasing Department.

5. DENTAL BACTERIOLOGY AND IMMUNOLOGY.

30 Lectures and 60 hours practical work. Time to be arranged with the Dental Faculty.

Available to Dental students in their second year.

6. BACTERIOLOGY AND IMMUNOLOGY for the M.Sc. Degree.

7. APPLIED PUBLIC HEALTH BACTERIOLOGY AND IMMUNOLOGY.

Available to Medical students in their second and third years in association with the Department of Health and Social Medicine.

8. APPLIED BACTERIOLOGY FOR GRADUATE NURSES. (CERTIFICATE COURSE).

22 Lectures and 19 hours practical work. Available only to students in the School of Graduate Nurses commencing October to December in the First Term.

9. PUBLIC HEALTH BACTERIOLOGY AND IMMUNOLOGY.

Available to Post Graduate students for the Diploma or Master's Degree in Public Health. In association with the Department of Health and Social Medicine.

10. SEMINARS ON APPLIED BACTERIOLOGY IN RELATION TO PARTICULAR NURSING PROBLEMS (DEGREE COURSE).

14 periods of 2 hours commencing January for 14 weeks in the second Term. Available only to nurses taking the Degree Course and on the successful completion of Course 8. Limited to 20 students.

Text-books:—Hans Zinsser and G. Bayne-Jones, Textbook of Bacteriology (Appleton); R. Muir and J. Ritchie, Manual of Bacteriology (Oxford University Press); R. T. Hewlett and James McIntosh, Manual of Bacteriology (Churchill); T. J. Mackie and J. E. McCartney, Practical Bacteriology (Livingstone); J. W. Bigger, Handbook of Bacteriology (Bailliere Tindall & Cox); Hans Zinsser, Resistance to Infectious Diseases (Macmillan); W. W. C. Topley and G. S. Wilson, The Principles of Bacteriology and Immunity (Edward Arnold & Co.); W. W. C. Topley, An Outline of Immunity (Arnold); M. Langeron, Precis de Microscopie (Masson & Cie); D. H. Bergey, Manual of Determinative Bacteriology (Williams & Wilkins); E. O. Jordan and W. Burrows, Text-Book of Bacteriology (Saunders); Frederick P. Gay, Agents of Disease and Host Resistance (C. C. Thomas); N. P. Sherwood, "Immunology" (Mosby Co.); H. Zinsser, J. F. Enders, L. D. Fothergill, "Immunity Principles and Application in Medicine and Public Health" (Macmillan Co.); R. W. Fairbrother, A Text-book of Medical Bacteriology (W. Heineman, Ltd.); R. J. Dubos, "The Bacterial Cell" (Harvard University Press); K. Landsteiner, "The Specificity of Serological Reactions" (Harvard University Press); F. M. Burnet, "Virus as Organism" (Harvard University Press).

PARASITOLOGY

Professor and Chairman of the Department . . . . . T. W. M. CAMERON

Assistant Professor . . . . . M. J. MILLER

Lecturers . . . . . E. MUNROE, L. P. E. CHOQUETTE

REQUIRED COURSES

SECOND YEAR

2A. HUMAN PARASITOLOGY.—This course on the animal parasites of man (protozoa, helminths and arthropods) comprises about 50 hours of instruction. Special attention is given to parasites found in North America, their diagnosis, bionomics and pathogenesis as well as to the more important animal vectors of disease. Exotic forms are more briefly discussed. In the practical class, each student examines all the important species as well as the lesions caused by them.

First term—Two lectures and one laboratory period per week.

ELECTIVE COURSES.—The Department not only provides facilities for advanced research work at the Institute of Parasitology, but offers didactic courses in general and comparative parasitology and courses leading to the degrees of M.Sc., and Ph.D. (See Announcement of the Faculty of Graduate Studies and Research).

Text-book:—Cameron, T. W. M., "The Parasites of Man in Temperate Climates" (*2nd edition*).

HEALTH AND SOCIAL MEDICINE

Strathcona Professor and Chairman of the Department . . . . R. P. VIVIAN

Assistant Professors . . . . . C. W. MACMILLAN, D. C. BEWS

Lecturers . . . . . R. VANCE WARD, BARUCH SILVERMAN, MARION WALL, GRAHAM ROSS, I. M. RABINOWITCH, W. H. CRUICKSHANK, H. E. BURKE

Demonstrator . . . . . AGNES M. FERENCZ

The instruction in Health and Social Medicine given to the medical undergraduates is designed to meet the requirements of the practitioner in Medicine. The importance of the subject is kept before the student throughout his course. Particularly stressed are the needs and opportunities in preventive medicine, and its social implications.

It is the aim of the Department to correlate the teaching of preventive medicine with the teaching of other departments in their special fields.

In First Year, Medical Sociology is the main subject. This leads to a presentation of the historical and contemporary background, and of the development of the public health system; the various plans for medical care are discussed.

The Second Year curriculum comprises didactic lectures, group work and field trips. The subjects cover Sanitation, Water, Milk and Food Control, Nutrition, Medical Statistics, and the Control of Communicable Diseases.

In Third Year, the hygienes are introduced, and students see the practical application of the lectures by means of field trips to tuberculosis and venereal disease clinics, industrial plants, pre-natal, infant and school hygiene services, the care of the aged, and the operation of the Student Health Service. In Third Year also are given lectures in Medical Jurisprudence and Industrial Toxicology.

In Fourth Year, it is hoped to maintain still closer contact with the students through small seminar groups, special studies, etc.

References:—Smillie, Mustard, Rosenau, Bradford-Hill.

PHARMACOLOGY AND THERAPEUTICS

Professor and Chairman of the Department . . . . . R. L. Stehle
Associate Professor of Therapeutics . . . . . D. S. Lewis
Associate Professor of Pharmacology . . . . . K. I. Melville
Assistant Professor of Pharmacology . . . . . A. M. Fraser
Lecturer in Therapeutics . . . . . W. de M. Scriver

PHARMACOLOGY

The object of the course in pharmacology is to elucidate, as far as knowledge permits, the action of drugs, and thereby lay a sound foundation for drug therapy.

Required Courses

1A. Pharmacology. The action of drugs is considered on the basis of information derived by means of experimental methods and careful clinical observation. The chemistry of the drugs studied is emphasized in order that the student may have a good foundation upon which to follow future developments of the subject intelligently.

Three lectures a week during the Winter Term supplemented by one conference and one demonstration a week. Second Year.

The conference groups are limited to four students each.
Professors Stehle, Melville and Fraser

1B. Pharmacological Laboratory. The experiments are chosen to illustrate the lecture course.

Two periods (six hours) a week during the Winter Term. Second Year.
Professors Stehle, Melville and Fraser

THERAPEUTICS

The teaching of therapeutics will be closely linked with that of medicine.

Required Courses

2. Pharmacy and Prescription Writing. Five lectures and five laboratory periods. Dr. Scriver

3A. Therapeutics: Didactic Instruction. A series of 20 lectures on the principles of therapeutics and on the treatment of various diseases for which clinical material is not readily available.

3B. Therapeutics: Theatre Lectures. Fifteen clinical lectures to be given in the hospitals during the year in conjunction with the teaching of the Department of Medicine. Dr. Lewis and Associates

Text-books in Pharmacology. Cushny, Sollmann, Clark, Thienes. *Text books in Therapeutics*, Beckman, Lyon, Reiman, Goodman and Gilman.

Options

Suitably prepared students may undertake research at any time.

Advanced courses leading to the degrees of M.Sc. or Ph.D. will be arranged to suit individual cases. See Announcement of the Faculty of Graduate Studies.

MEDICINE

Professors	G. R. Brow J. S. L. Browne L. C. Montgomery
Associate Professors	E. H. Mason, E. S. Mills, I. M. Rabinowitch
Assistant Professors	C. C. Birchard, K. A. Evelyn, Neil Feeney, M. Hoffman, J. Keith Gordon, Bram Rose, J. Kaufmann, D. S. Lewis, H. S. Mitchell, J. H. Palmer, J. F. McIntosh, W. de M. Scriver, C. G. Sutherland, C. J. Tidmarsh,
Lecturers	L. J. Adams, Michael Aronovitch, C. S. Barker, R. C. Bennetts, E. H. Bensley, J. O. W. Brabander, H. E. Burke, G. A. Copping, R. A. Cleghorn, A. F. Fowler, G. W. Halpenny, W. H. D. Hill,

Lecturers (Contd.): J. G. Howlett, W. R. Kennedy, Louis Lowenstein, J. F. Meakins, D. L. Mendel, H. N. Segall, McIver Smith, A. T. Thom, S. R. Townsend, R. Vance Ward, H. P. Wright.

Demonstrators: D. Barza, F. M. Bourne, Wm. Cohen, H. I. Cramer, B. R. Cuddihy, W. W. Eakin, Alec Gordon, Guy Hamel, R. G. M. Harbert, A. W. Lapin, H. E. MacDermot, R. D. McKenna, W. G. McLellan, S. Ortenberg, Basil Robertson, C. B. Smith, G. E. Wight.

DERMATOLOGY

Clinical Professors: J. F. Burgess, L. P. Ereaux

Lecturers: F. Kaltz, D. S. Mitchell, B. Usher

CLINICAL THERAPEUTICS

Associate Professor: D. S. Lewis

Assistant Professor: C. W. Fullerton

Lecturers: W. de M. Scriver, Guy Fisk (*Physiotherapy*)

TOXICOLOGY AND MEDICAL JURISPRUDENCE

A series of twenty-four lectures and demonstrations.

Professor Rabinowitch

Toxicology: 1. Definitions; 2. Occurrence of Poisoning—Accidental (Food. Industrial. Clothes and Cosmetics. Patent Medicines. Therapeutic. Other). Suicidal. Homicidal. 3. Mode of Action of Poisons: Modifying Causes—Form. Amount. Mode of Entry into

Body. Age. Habit. Sleep. Physical Condition of Subject. Idiosyncracy. Other. 4. Classification of Poisons. 5. Acute Poisoning: Diagnosis—Similarity Between Poisoning and Disease. General Evidence of Poisoning. Rules for Diagnosis. Treatment: Principles. General Treatment. Antidotes—Limitations. 6. Legal: Control of Poisons—Dangerous Drugs Acts and Regulations. Relation of Doctor to Pharmacist. Administration of Noxious Drugs. Narcotics. 7. Medico-Legal Considerations in Cases of Poisoning: Accident. Suicide. Murder. Duty of Doctor—In Suspected Cases. In Known Cases. Post-mortem examinations in Cases of Poisoning.

Medical Jurisprudence: A. *1.* Introduction: Definitions—Law. Medicine. Forensic Medicine. 2. Legal Position of Doctors. 3. Obligation of Doctor to the State: Medical Notifications and Certifications—Births. Stillbirths. Infectious Diseases. Deaths. Other. 4. Responsibilities to Patient: Implied and Expressed Contracts. Professional Secrecy. Privileged Communications. Medico-legal Aspects of Physical Examinations—Consent. 5. Malpractice: Civil. Criminal. Negligence. Contributory Negligence. Errors of Commission. Consultations. Responsibility for Assistants. "Reasonable Care and Judgment". B. Legal Criminal Procedure: 1. Investigation of Sudden Deaths and Deaths from Unnatural Causes—Coroner's Court. 2 Medical Evidence in Courts of Law: *a.* Documentary. *b.* Oral. *c.* Experimental. 3. General Rules of Conduct for Medical Witnesses: Professional Secrecy. Privileged Communications. Precognitions. Fees. C. Medico-Legal Aspects of Death: 1. Signs of Death. 2. Apparent Death. 3. Proximate Causes of Death. 4. Sudden Death. 5. Presumption of Death—Presumption of Survivorship. 6. Medico-Legal Forms of Death. 7. Post-Mortem Examinations for Medico-Legal Purposes. 8. Identification of the Dead. D. Personal Identity in its Medico-Legal Bearings: For Civil Purposes. For Criminal Purposes. Mistaken Identity. E. Blood Stains: Medico-legal information from Blood Stains. Blood Grouping. F. Wounds: 1. Legal Definition. 2. Types. 3. Medico-legal Examination of a Wounded Person. 4. Causes of Death from Wounds: 5. Wounds after Death. G. Medico-Legal Aspects of Pregnancy. H. Abortion: Duty of Doctor in Cases of Suspected Criminal Abortion and in Cases of Known Criminal Abortion. I. Impotence and Sterility. J. Rape. K. Infanticide. L. Mental Unsoundness: Medical Certification of the Insane. Protection of Certifying Physicians. Admission of Voluntary Patients to Institutions for the Insane. M. Drunkenness: 1. Dianosis: Clinical. Chemical. 2. Medico-legal Aspects—Civil. Criminal.

Text and Reference Books:—Buchanan's Text Book of Forensic Medicine and Toxicology. Medical Jurisprudence and Toxicology—Glaister. Forensic Medicine—Kerr. Forensic Medicine—Littlejohn. Legal Medicine and Toxicology—Gonzales, Vance and Helpern. Toxicology—

McNally. Forensic Medicine—Sydney Smith. Recent Advances in Forensic Medicine—Sydney Smith and Glaister. Taylor's Principles and Practice of Medical Jurisprudence.

THE CURRICULUM IN THE DEPARTMENT OF MEDICINE

Foreword

The object of the following courses is to impart a sound knowledge of the principles of general medicine in the diagnosis and treatment of disease; to afford a knowledge of the technique and, above all, so to train the student that he will be enabled to cultivate the faculty of critical judgment. The mere instruction, of itself, is regarded as but a part of the course, while the personal contact of students, teachers and patients throughout the final years is of prime importance.

The close correlation of physiology, anatomy and biochemistry with clinical medicine is emphasized—not only in the pre-clinical years, but later in hospital and laboratory—thus affording students a modern scientific medical training.

Unusual facilities are afforded at the Royal Victoria Hospital and at the Montreal General Hospital where there are extensive laboratories for the study of disease in all its phases. Excellent clinical facilities are afforded at both these hospitals, as well as by affiliation with other institutions.

The University lectures and clinical lectures are open to students of all years. The final examinations may cover any portion of the realm of internal medicine and its various branches of which the examiners may deem it proper that a graduating student should be cognizant.

Required Courses

Second Year

Course II 1—*Integration of Physiology, Biochemistry and Anatomy with Medicine.*

Time—Last term of Second Year—Two lectures a week and one amphitheatre clinic.

Place—Medical Building. Montreal Neurological Institute Theatre.

Subject Material—This course covers in a systematic manner the deviations from the normal of the physiological and biochemical functions. These are correlated so as to explain symptoms and signs which may be found on physical examination as detected by clinical methods dealt with in Course II 2. This course follows a chronological order from birth to old age and is so interpreted as to give the student a panoramic view of these disturbances with a proper perspective. Professors ———— and Browne.

Course II 2—*A Practical Course in Clinical Methods.*

Time—Last term of Second Year.

Place—Outpatient Dept. of the Royal Victoria and the Montreal General Hospitals.

Subject—Practical instruction 4 hours a week on Normal and Abnormal Physical Signs and one amphitheatre clinic.

Course II 3—*Laboratory Diagnosis.*

Time—Last term of Second Year.

Place—Medical Building.

Subject—Instruction and practice 2 periods a week in microscopy as applied to clinical medicine.

Asst. Prof. McIntosh and Assistants

THIRD YEAR

Course III 4—*Amphitheatre Clinics in General Medicine.*

Time—Once weekly throughout year.

Place—Alternately at the Royal Victoria and the Montreal General Hospitals.

Subject—Demonstration and discussion of cases illustrating certain disease processes.

Course III 5—*Bedside Clinics and Practical Demonstrations.*

Time—Twice weekly during the medical trimester.

Place—Wards of the Royal Victoria and the Montreal General Hospitals.

Course III 6—*Clinico-Pathological Conference*

Time—Weekly during the medical trimester.

Place—The Royal Victoria and the Montreal General Hospitals.

Course III 7—*Case Reporting.*

During the trimester in Medicine students will be assigned patients in the wards. They will be required to write case histories, make a general examination, note progress, and do such laboratory investigations as are within their scope and have access to all other Laboratory and X-Ray findings.

Course III 8—*A Practical Course in Diseases of Metabolism.*

Time—Weekly during the medical Trimester.

Place—Royal Victoria and the Montreal General Hospitals.

Subject—This course consists of weekly Ward Rounds in the two Hospitals.

In addition to the above courses General Ward Rounds are held once a week at each Hospital for students reporting Medicine.

Fourth Year

Course IV 9—*Amphitheatre Clinics in General Medicine.*
Time—Once a week throughout year.
Place—Alternately at the Royal Victoria and the Montreal General Hospitals.

Subject—Demonstration and discussion of cases illustrating more complicated cases as compared to the third year.

Course IV 10—*Bedside Clinics and Practical Demonstration.*
Time—Twice weekly during medical quarter.
Place—Wards of the Royal Victoria and the Montreal General Hospitals.

Course IV 11—*Clinico-Pathological Conference.*
Time—Once a week during medical quarter.
Place—Royal Victoria and the Montreal General Hospitals.

Course IV 12—*A systematic course of lectures designed to give a general survey of laboratory procedures and their interpretation.*

Course IV 13—*Clinical Therapeutics—practical bedside instruction.*
Time—Once a week during the medical quarter.
Place—Royal Victoria and the Montreal General Hospitals.

Course IV 14—*A Course of Lectures in Medicine.*
Time—One period a week throughout year.
Place—Medical Building.

Subject—Lectures in General Medicine to give a panorama of the subject. Professor ———— and assistants

Course IV 15—*A course of lectures in Dermatology.*
Time—One period a week throughout the year.
Place—Medical Building.

Subject—Lectures in Dermatology and Syphilology.

Course IV 16—*Dermatology and Syphilology—practical instruction.*
Time—Twice a week during one quarter.
Place—Montreal General and Royal Victoria Hospitals.

Text and Reference Books

Clinical Methods and Physical Diagnosis:—Todd, "Clinical Methods"; Flint, "Physical Diagnosis"; Major, "Physical Diagnosis"; Murray, "Examination of the Patient"; Gradwohl, "Clinical Laboratory Methods and Diagnosis"; Hutchison and Hunter, "Clinical Methods"; Cabot & Adams, "Physical Diagnosis"; Department of Medicine, McGill University, "Guide to Medical Case Reporting".

General Medicine:—McLeod, "Physiology in Modern Medicine"; Best and Taylor, "Physiological Basis in Medical Practice"; Meakins, "Practice of Medicine"; Cecil, "Text Book of Medicine"; Davis, "Cyclopedia of Medicine"; White, "Heart Disease"; Norris and Landis, "Diseases of the Chest"; Eusterman and Balfour, "Stomach and Duodenum"; Hurst and Stuart, "Gastric and Duodenal Ulcer"; Joslin, "Diabetic Manual"; "Treatment of Diabetes Mellitus"; McLester, "Nutrition and Diet in Health and Disease"; Peters and Van Slyke, "Quantitative Clinical Chemistry"; Vol. I, Interpretations; Kurzrok, "The Endocrines in Obstetrics and Gynæcology"; "Pharmacopœa of the Teaching Hospitals".

Dermatology:—Walker, "Introduction to Dermatology"; MacLeod, "Diseases of the Skin"; Sutton and Sutton, "Diseases of the Skin"; Ormsby, "Diseases of the Skin".

PSYCHIATRY

Professor and Chairman	D. E. CAMERON
Assistant Professors	R. A. CLEGHORN
	F. R. HANSON
	R. B. MALMO
	A. E. MOLL
	MIGUEL PRADOS
	G. E. REED
	BARUCH SILVERMAN
	KARL STERN
Lecturers	MILTON GRAY
	A. A. MCKAY
	T. E. DANCEY
Demonstrators	J. BEAUBIEN
	H. HERSHON
	LLOYD HISEY
	H. LEHMAN
	C. A. SKITCH
Research Associate	EDRITA FRIED

FOREWORD

Instruction in human behaviour is given in all four years. Emphasis is placed upon the personality factor in all forms of illness. Consequently, teaching is carried on in close relation with other aspects of medicine. It is planned to take full advantage of the teaching facilities not only of the Institute but of the wards and out-patient departments of the Royal Victoria Hospital and of the Montreal General Hospital.

Special prominence is given to those psychological and personality situations which the student will meet after graduation in his day to day teaching. Instruction in military psychiatry and in child psychiatry is given in the final years.

Required Courses

1. Psychobiology—A course of twelve lectures will be given in the first year. In this course, the various aspects of human behaviour will be stressed, with special reference to their relationship to medicine. Dr. Cameron
2. Psychiatry—Eighteen lectures on the basis behavioral disorders will be given. During the second year both those disorders which require hospitalization and those which can be dealt with on an ambulant basis will be considered. Dr. Reed and Assistants
3. 70 hours of clinical instruction will be given during the third year. This instruction will be held primarily on the wards of the teaching hospitals and in the Out Patient Departments. Drs. Hanson, Prados, Moll, and Dancey
4. A course of eight lectures will be given on child psychiatry during the fourth year. Dr. Silverman
5. Clinical demonstrations, out-patient instruction and ward rounds will be held during the fourth year. Certain of these will be devoted to early behavioral disturbances, psychosomatic and toxic states, and drug addictions. Drs. Cameron, Stern and MacKay
6. Instruction will be given in adult out-patient psychiatry in the Psychiatric Outdoor Department in the Royal Victoria Hospital, and in child out-patient psychiatry at the Mental Hygiene Institute. Drs. Prados and Silverman
7. Instruction in the care of long term cases, and institutional psychiatry, will be given at the Allan Memorial Institute and Verdun Protestant Hospital. Drs. Reed, Skitch and Lehman

PAEDIATRICS

Associate Professor and Chairman	Alton Goldbloom
Associate Professors	S. G. Ross L. M. Lindsay
Assistant Professors	H. L. Bacal, A. K. Geddes Alan Ross
Lecturers	P. N. MacDermot Jessie Scriver
Demonstrators	B. Benjamin, H. Friedman-Brickman, R. L. Denton, S. I. Doubilet, D. Klein, A. Lax, Frances McCall, D. R. McCrimmon, J. H. O'Neill, F. Shippam, Cameron Stewart, S. J. Usher, E. M. Worden, Isobel Wright

Required Courses

1. Lectures:

   (a) An Introductory course of 10 lectures in the winter term of the second year covering physical and intellectual development of the infant and child, the bases of nutritional requirements of the growing child mineral and water metabolism, the embryology of congenital defects.

   (b) A series of 36 lectures once weekly during the third year designed to cover the various aspects of Diseases of Children; Nutrition, Hygiene, Infections, Communicable Diseases, Preventive Medicine etc. Professor Goldbloom and Staff

2. Diseases of the Newborn: Royal Victoria Maternity Pavilion.

   A weekly clinic-demonstration to groups of students of the third year during their obstetrical quarter.
   Professors Goldbloom and G. Ross, Drs. Geddes, A. Ross, Scriver and Worden

3. Clinical Paediatrics:

   (a) During the third year the class is divided into groups, each group devoting the mornings of six weeks to Clinical instruction at the Children's Memorial Hospital.

   (b) Groups during the final year will spend four weeks entirely at the Children's Memorial Hospital as clinical clerks under tutors—3 or 4 students to each tutor. Work will be divided between the wards and the out-patients department.
   Professors Goldbloom, G. Ross, Lindsay and Staff

   (c) Care and feeding of the normal infant, immunization procedures, preventive paediatrics; Child Welfare Clinics.
   Drs. Scriver, Usher, Doubilet, Benjamin

   (d) Infectious Diseases.
   A series of demonstrations to groups of students on the common infectious diseases is given at the Alexandra Hospital as part of the instruction of the final year. Drs. Worden, C. Stewart

Text-books: Holt and McIntosh, "Diseases of Infancy and Childhood"; Mitchell and Nelson, "Diseases of Infants and Children"; Porter and Carter, "Management of the Sick Infant and Child"; Brown and Tisdall, "Common Procedures in Paediatrics"; Smith, "Physiology of the New Born Infant"; Goldbloom. "Care of the Child".

Reference Books: Brenneman, "Practice of Paediatrics" (4 volumes); Parsons and Barling, "Diseases of Infancy and Childhood" (2 volumes); Langdon, "Home Guidance for Young Children"; Abt's "Paediatrics" (8 volumes); Still, "Common Disorders and Diseases of Childhood"; John Thomson, "Clinical Study and Treatment of Sick Children"; Von Reuss, "Diseases of the New Born." Gesell, "The Embryology of Behaviour"; Patten, "Human Embryology".

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

Professor of Neurology and Neurosurgery, Chairman of Department	Wilder Penfield
Associate Professor of Neurosurgery	William Cone
Associate Professor of Neurology	Donald McEachern
Clinical Professor of Neurology	F. H. Mackay
Assistant Professors of Neurology	K. A. C. Elliott Francis McNaughton Arthur W. Young
Assistant Professor of Neurosurgery	Arthur Elvidge
Assistant Professor of Neurological Radiology	D. L. McRae
Asst. Professor of Neurophysiology	Herbert Jasper
Lecturers in Neurology	John Kershman J. Preston Robb
Lecturer in Neurosurgery	T. R. Rasmussen
Demonstrator in Neurology	A. A. Bailey
Demonstrator in Neuropathology	H. Steelman
Demonstrators in Neurosurgery	W. K. Welch H. W. Elliott John Bates, Jacob Chandy Arlindo Conde David Daly William F. Gerber Clarence Greene* Lloyd G. Hisey Bruce C. Holman John Hunter Andrew Kelen
Fellows of the Montreal Neurological Institute	Robert Knighton** Kristian Kristiansen Choh-luh Li Gabriel Mazars*** Francis H. O'Brien Eduardo Palma Josef Pavrovsky* Reuben Rabinovitch T. R. Rasmussen Norman Sloan Thomas J. Speakman**** Donald B. Tower J E. Ziegler

*Rockefeller Fellowship
**U.S. National Research Council Fellowship
***Travelling Fellowship, French Government
****National Research Council Fellowship

Outline of Courses, 1947-48

Second Year

2A. *Clinical Neuroanatomy and Neurophysiology. 4 lectures.* Department of Medicine.

Assistant Professor McNaughton

2B *Physical Examination of the Nervous System.* 2 theatre clinics. Department of Medicine (1 at M.G.H., 1 at R.V.H.).

Clin. Professor F. H. MacKay

2C (*Anatomy 7*) *Neuroanatomy.* Lectures and Laboratory. Department of Anatomy.

Assistant Professor McNaughton and Dr. Bailey

Third Year

3A *Survey of Neurology and Neurosurgery.* 24 lectures. Saturdays, 8:45—9:40, Sept. 7—Mar. 1. M.N.I. Amphitheatre.

Professor Penfield and Assistant Professor McNaughton

Fourth Year

4A *Neurological and Neurosurgical Clinics.* 20 theatre clinincs. Saturdays, 9:45—10:45, Nov. 2—Mar. 29. M.N.I. Amphitheatre.

Associate Professor Cone and Assistant Professor McEachern

4B-1 *Neurological O.P.D.* R.V.H. Outpatient Department. Monday and Thursday*, 2:00—3:00.

Assistant Professor McEachern and assistants

4C-1 *Neurology Ward Classes.* Department of Medicine. Wednesdays, 8:45—9:45 (R.V.H. group).

Assistant Professor McEachern

4B-2 & 4C-2 *Combined Neurological O.P.D. and Ward Classes.* M.G.H. Mondays *and* Fridays, 2:00—3:00 (M.G.H. group).

Clinical Professor F. H. Mackay and assistants

4D-1 *Neurosurgery Ward Classes.* Department of Surgery. M.N.I. (R.V.H. group). Mondays, 1:00—2:00.

Associate Professor Cone

4D-2 *Neurosurgery Ward Classes.* Department of Surgery. M.N.I. (M.G.H. group). Thursdays, 2:00—3:00.

Assistant Professor Elvidge

4E-1 *Neurology Seminar.* R.V.H. Outpatient Department. Tuesdays, 3:45—4:45.

Assistant Professor McNaughton

4E-2 *Neurology Seminar.* M.G.H. Outpatient Department. Fridays, 3:00—4:00.

Assistant Professor McNaughton

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*Two Thursdays per month only.

ELECTIVE COURSES.

I. *Seminar in Neuroanatomy.* M.N.I. 4 hours weekly (12 weeks). Lectures and construction of brain model. Two evenings, beginning in November.

Assistant Professor McNaughton and Dr. Kershman

II. *Seminar in Neurophysiology.* M.N.I. 3 hours weekly (12 weeks). Laboratory demonstrations, lectures and discussions. Mondays, 5-6 and 8-10 P.M., beginning in February.

Assistant Professor Jasper

III. *Colloquium in Clinical Neurology.* 2 hours weekly. Clinics and lectures, Wednesdays, 5 P.M.

Assistant Professor McEachern

IV. *Colloquium in Neurosurgery and Electroencephalography.* M.N.I. 1 hour weekly. Fridays, 4 P.M. (10 months).

Professor Penfield and Assistant Professor Jasper

SURGERY

Professor and Chairman of the Department	G. GAVIN MILLER
Professor	FRASER B. GURD
Associate Professors	J. C. ARMOUR, H. M. ELDER, R. R. FITZGERALD, D. E. ROSS, A. L. WILKIE
Assistant Professors	H. L. DAWSON, MERCIER FAUTEUX, C. M. GARDNER, J. C. LUKE, C. A. MCINTOSH, D. W. MACKENZIE, JR., L. H. MCKIM, S. J. MARTIN, H. S. MORTON, H. F. MOSELEY, ALBERT ROSS, P. G. ROWE, A. J. STEWART
Lecturers	H. A. BAXTER, S. G. BAXTER, H. S. DOLAN, JOHN GERRIE, MARK KAUFMANN, G. D. LITTLE, E. A. MCNAUGHTON, H. G. PRETTY, A. M. VINEBERG, D. R. WEBSTER
Demonstrators	F. D. ACKMAN, A. R. BAZIN, E. H. CAYFORD, E. M. COOPER, W. M. COUPER, G. A. HOLLAND, C. K. MCLEOD, W. W. RUDDICK, J. C. SUTTON

ORTHOPAEDIC SURGERY

Assistant Professors: J. G. Petrie, J. G. Shannon

Demonstrators: S. E. Goldman, J. A. L. Walker, W. G. Breckenridge

UROLOGY

Clinical Professors: R. E. Powell, E. S. Smith

Lecturers: A. B. Hawthorne, S. A. MacDonald, R. G. Reid, M. I. Seng

Demonstrators: J. T. MacLean, Max Ratner, Alex. Strasberg, A. M. J. Tanney

Required Courses

Second Year

Surgical teaching begins in the spring term (16 weeks) of the Second Year. In this year special attention is directed to the instruction and training of the student, in proper methods of physical examination, from the surgical point of view. At the same time, instruction is given in methods of surgical technique, and the student is introduced to the simpler types of fractures and dislocations.

2A. *A course of lectures* (16) covering the history of Surgery and an introduction to the study of surgical diseases. This course includes five lectures on "First Aid."

2B. *Group classes* in the wards of the Montreal General and Royal Victoria Hospitals. At these, small groups of students are instructed in methods of examination as applied to surgery and its allied specialties.

Third Year

The student comes into a more intimate contact with the patients, and in the surgical trimester is assigned cases, writes case reports, acts as dresser, and assists at operations.

*3A. *Amphitheatre Clinics and Demonstrations* in the Montreal General and Royal Victoria Hospitals, two days a week throughout the year.

3B. *Group Ward classes* in the Montreal General and the Royal Victoria Hospitals, three times a week during the term.

3C. *Case Reporting.* Patients are allotted to students who act as reporters, dressers, and assistants at operations.

FOURTH YEAR

*4A. *Amphitheatre Clinics and Demonstrations* in the Montreal General and Royal Victoria Hospitals alternately, once a week throughout term.

4B. *Group Ward Classes and Ward rounds* in the Montreal General and Royal Victoria Hospitals, four times a week during the surgical quarter.

4C. *Case Reporting*

4D. *Clinico-Pathological conferences* once a week during the term, jointly with the Department of Pathology, at the Montreal General and Royal Victoria Hospitals.

SURGICAL DISEASES OF CHILDREN.—Instruction in the surgical diseases of children is given during the trimester in which the students are assigned to pædiatrics at the Children's Memorial Hospital, as follows:—

4A. *Amphitheatre Clinics* once a week throughout trimester.

4B. *Group Ward Classes* three times a week throughout trimester.

ORTHOPAEDIC SURGERY

FOURTH YEAR

4A. *Clinical Lectures.* A course of 8 lectures given at the hospitals.

4B. *Ward Classes* at the Montreal General and Royal Victoria Hospitals, once a week during the surgical trimester.

4C. *Group Classes in the Out-door Department* of the Montreal General and Royal Victoria Hospitals, twice a week during the surgical trimester.

ANÆSTHESIA.—Instruction in anæsthesia is given by the Department of Pharmacology and Clinical Therapeutics. Students are given practical instruction in the administration of anæsthetics, during their surgical trimesters in the Third and Fourth Years at the Montreal General and Royal Victoria Hospitals.

Close correlation is maintained with the Departments of Anatomy and Physiology as well as with the concurrent instruction in Medicine, Pathology and Bacteriology.

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*Amphitheatre Clinics 3A and 4A are so arranged that all surgical subjects are presented during the two year course.

The course is graded and the student is required to qualify in each grade before he is permitted to advance to succeeding grades.

Urology

Second Year

2A. *Clinical Urology*

Group classes, 4 demonstrations, in which instruction in methods of Urological examination is given in the Montreal General and Royal Victoria Hospitals.

(See Surgery—2B).

Fourth Year

4A. *Clinical Lectures*—a course of theatre clinics in each of the hospitals.

4B. *Urological Clinics*—Ward Classes

The Montreal General Hospital—3 classes a week.
Royal Victoria Hospital—3 classes a week

4C. *Case Reporting in Urological Wards.*

Instruction in surgery and the surgical specialties is given in the form of didactic lectures, amphitheatre clinics and demonstratons and group teaching in the wards and out-patient departments of the teaching hospitals. The course is graded. The student must qualify in each year before proceeding to the next.

Text-books:—

1. *General Surgery:* John Homans, "A Text-book of Surgery"; Choyce, C. C., "A System of Surgery"; Gask and Wilson, "Surgery"; Hamilton Bailey, "Demonstrations of Physical Signs in Clinical Surgery"; Christopher; Cole and Elman; Romanis and Mitchener; Handfied, Jones and Porrett, "The Essentials of Modern Surgery"; Rose and Carless, "Manual of Surgery"; Berman's Synopsis of Principles of Surgery; Pack and Livingston's "Treatment of Carcinoma"; Christopher's "Minor Surgery".

2. *Emergency Surgery:* Sluss, John W., "Manual of Energency Surgery"; Cole & Puestow, "Advanced First Aid".

3. *Surgical Anatomy:* McGregor, "Synopsis of Surgical Aratomy"; Treves, "Surgical Applied Anatomy".

4. *Fractures and Dislocations:* Scudder, Charles L., "Treatment of Fractures"; Wilson and Cochrane, "Fractures and Dislocations"; Magnuson's "Fractures"; Stimson's "Manual of Fractures and Dislocations"; Wilson's "Management of Fractures"; Key and Conwells "Fractures and Dislocations"; Watson Jones "Fractures and other Bone and Joint Injuries"; Key and Conwell, "Fractures, Dislocations and Sprains".

5. *Case Reporting:* White, J. Renfrew, "The Clinical Examination of Surgical Cases"; Geckeler's "Fractures and Dislocations."

6. *Urology:* Eisendrath and Rolnick's "Urology"; Herman's "Practice of Urology"; Hinman's "Principles and Practice of Urology"; Keyes and Ferguson's "Urology"; Young's "Practice of Urology"; Le Comte's Manual of Urology.

7. *Orthopædic Surgery:* Whitman's "Orthopædic Surgery"; Jones, "Orthopædic Surgery of Injuries"; Jones and Lovett, "Orthopædic Surgery"; Mercer's "Orthopædic Surgery"; Willis Campbell's "Orthopædic Operations"; Sever's "Handbook of Operative Surgery"; Steindler's "Orthopædic Operations".

DEPARTMENT OF ANAESTHESIA

Assistant Professor and Chairman . . . . WESLEY BOURNE

Assistant Professors . . . . . C. C. STEWART, F. A. H. WILKINSON

Lecturers . . . . . C. C. CARROLL, R. S. FERGUSON, H. R. GRIFFITH, W. C. STOCKWELL

Demonstrators . . . . . M. K. BELTON, J. J. KELLY, P. E. O'SHAUGHNESSY, A. M. TORRIE

UNDERGRADUATES

Students in Medicine, before their third year will have been introduced to the subject of Anæsthesia by the teachers in Anatomy, Biochemistry, Pharmacology and Physiology.

During the Third Year, ten lectures are given. All of these lead on from the academic to the clinical aspect. In these lectures sound motion pictures are shown. As time goes on, reading matter is prescribed.

At the end of the third year students are required to be certified as having fulfilled the requirements of the department.

In the final year each undergraduate student spends at least six days with an anaesthetist and acts as his assistant.

DEPARTMENT OF OBSTETRICS AND GYNAECOLOGY

Professor and Chairman	N. W. Philpott
Associate Professor	A. D. Campbell
Assistant Professors	W. A. G. Bauld
	J. S. Henry
	G. C. Melhado
	G. A. Simpson
Lecturers	W. R. Foote
	P. J. Kearns
	K. T. MacFarlane
	G. B. Maughan
	I. Y. Patrick
	Eleanor Percival
	D. W. Sparling
	Clifford Ward
	(Sessional) George Strean
Demonstrators	J. E. Ayre, S. Gold, M. Hendelman
	H. T. Lyon
	J. L. Macarthur
A. A. Browne Fellow and Demonstrator	Grace Donnelly
Teaching Fellows	H. Oxorn
	Thomas Primrose
Research Fellow	J. H. Maloney

The entire course is arranged on the basis of imparting a practical knowledge of Obstetrics, Gynæcology and the Care of the New-born. The value of intimate contact with the patient in the normal and the pathological state is stressed.

The privilege of serving as an interne in the hospital for two weeks treating the patients from the time of admission till discharge from hospital is an ideal arrangement. Rooms are provided in the Women's Pavilion where the students may reside, in groups of six, during this period.

OBSTETRICS

Required Courses

Second Year

Sixteen lectures are given as an introduction to the subject. These lectures are relative to the anatomy and physiology of the genital tract. The physiology of pregnancy is also described. Professor Philpott.

Third Year

1. Thirty-five Clinical Conferences for all Third Year students. Wednesday 12:45 to 1:45 p.m., illustrating the more important Obstetrical conditions. Professor Philpott.

2. Nineteen lectures describe the physiology of labor and the puerperium. The major pathological lesions relative to parturition are described.
Senior Members of the Staff

3. Thirty demonstrations are given in Obstetrical palpation and on the manikin, with the aid of models, diagrams, lantern slides and moving pictures. Given by Members of the Staff

4. Clinical instruction for twelve periods in case-rooms and wards.
Given by Members of the Staff

5. Six lectures concerning early development of the embryo and the placenta. Given by Members of the Staff

6. Ten lectures or demonstration periods relative to the care of the Newborn. Professor Goldbloom and Professor Ross

FOURTH YEAR

1. Thirty-five Clinical Conferences for all Fourth Year students, Wednesday, 12:45 to 1:45 p.m., illustrating the more important Obstetrical conditions. Professor Philpott

2. General Ward Rounds held once a week are arranged to give a complete account of the work of the hospital. This is attended by those students in the current Obstetrical Course. Professor Philpott

3. Thirty lecture demonstrations are held in the Lecture Theatre or Case Room on the following subjects:

Normal Labour . . . . . Professor Philpott
Dystocia . . . . . Professor Melhado
Hæmorrhage . . . . . Professor Henry
Puerperal Infection . . . . . Professor Campbell
Toxæmia of Pregnancy . . . . . Dr. Patrick

4. Fourteen instructions periods chiefly concerning ante-natal care including conduct of pregancy, labour etc.
Given by Senior Members of the Staff

GYNAECOLOGY

1. Theatre clinics and bedside instruction in the Royal Victoria and Montreal General Hospitals.
Professsors Philpott, Campbell and Staff

2. A special course on Gynæcological Pathology.
Drs. P. J. Kearns and Gold

3. Methods of Gynæcological examination, diagnosis and treatment in the outdoor departments.

4. A special course of instruction, once a week, through the year in the cancer clinic on methods of diagnosis and treatment of cancer, dealing especially with Radium and X-Ray.

Professor Bauld and Staff

Text and Reference Books

Obstetrics

(1) De Lee-Greenhill	Principles and Practice of Obstetrics.
(2) Stander	Text book on Obstetrics.
(3) Bland	Practice of Obstetrics.
(4) Miller, J.	Manual of Obstetrics.
(5) Appleton	Obstetrical and Gynaecological Monographs.
(6) Irving	Text book on Obstetrics.
(7) Beck	Obstetrical practice.
(8) Adair	Obstetrics.
(9) Scott and Van Wyck	The Essentials of Obstetrics and Gynaecology.

Gynaecology

(1) Curtis	Text book of Gynæcology and System of Gynæcology and Obstetrics.
(2) Ten Teachers	Diseases of Women.
(3) Monroe Kerr	Gynæcology.
(4) Goodall	Puerperal Infection.
(5) Crossen	Gynæcology.
(6) Kennedy, Campbell	Vaginal Hysterectomy.
(7) Novak	Text book of Gynæcology.

OPHTHALMOLOGY

Professor . . . . . J. A. MacMillan

Associate Professor and Chairman of the Department . . . . . Stuart Ramsey

Assistant Professor . . . . . J. Rosenbaum

Lecturers . . . . . K. B. Johnston, J. V. V. Nicholls, B. Alexander, R. J. Viger

Demonstrator . . . . . L. S. S. Kirschberg

The undergraduate work in Ophthalmology, which is designed to meet the needs of a well-trained general practitioner, embraces the following courses in the Third and Fourth Year of the Medical Course:—

THIRD YEAR

1. ROUTINE EXAMINATION OF THE EYE.

In this work the class in small groups is drilled in the various tests in the routine examination of the eye, every effort being made to demonstrate methods which, though simple, are adequate and call for the minimum outlay for equipment. Instruction in the use of the ophthalmoscope and familiarization with the appearance of the normal fundus of the eye are an important feature of this preliminary course.

Five hours..... Professor MacMillan and members of the Staff

2. LECTURE DEMONSTRATIONS TO ENTIRE CLASS.

This course, variously illustrated, covers the general principles and the systematic side of the subject. It has been designed to furnish a background of essential information for the clinical work of the Final Year.

Ten hours..... Professor MacMillan

FOURTH YEAR

CLINICAL OPHTHALMOLOGY.

This teaching is conducted in the Ophthalmic clinics and wards of the Montreal General and Royal Victoria Hospitals. The class is divided into groups of ten, each group receiving twenty-five hours instruction. Ocular problems that are of greatest moment in general practice are discussed. This includes the external diseases of the eye, the main ophthalmological findings in systemic disorders, affections of the nervous system, and as far as possible a co-relation of the clinical and histological ocular changes.

Professor MacMillan and members of the Staff

Text-books:—May, Gifford, Parsons, Berens.

Reference books:—Duke-Elder.

OTO-LARYNGOLOGY

Associate Professor and Chairman of the Department..... D. H. BALLON

Associate Professor..... G. E. HODGE

Assistant Professors..... W. J. MCNALLY, K. O. HUTCHISON, G. E. TREMBLE, A. O. FREEDMAN

Lecturers..... E. E. SCHARFE, E. A. STUART

Demonstrators..... F. W. SHAVER, W. CHAPIN, H. E. MCHUGH

Instruction in Oto-Laryngology is given to students of the third and fourth years and is designed to meet the needs of the general practitioner.

The clinical courses are carried on in the wards and out-patient departments of the Montreal General and the Royal Victoria Hospitals, where the large clinics afford the students ample opportunity of receiving practical instruction. In these two hospitals there are about fifty beds set apart for this specialty

The practical work is conducted in small groups so that personal instruction and supervision are given to each student.

Medical motion pictures are used as a supplement to the class-room lecture and clinical demonstration.

THIRD YEAR

A course of 10 demonstrations is given to students of the Third Year. These demonstrations deal with the normal anatomy of the ear, nose and throat, and with methods of examination. The students are required to examine the patients and recognize the normal and common pathological conditions of the ear, nose and throat. Ward rounds are made to illustrate the pre- and post-operative methods of treatment.

Lecture Course:

Ten practical illustrated lectures are given to the whole class. Special emphasis is laid on those surgical procedures which the general practitioner should be capable of performing.

Instruction will be given on the practical value of the bronchoscope in the diagnosis and treatment of diseases of the tracheo-bronchial tree and the œsophagus.

FOURTH YEAR

Ten clinical demonstrations are given in the out-patient departments and wards of the hospitals. The students are expected to examine the patients and report on them. Differential diagnosis and treatment is stressed.

Text and Reference Books:—Sir St. Clair Thomson: Diseases of the Nose and Throat; A. Logan Turner: Diseases of the Nose, Throat and Ear; Chevalier Jackson and G. M. Coates: The Nose, Throat and Ear and Their Diseases; Otology, Rhinology, and Laryngology (2nd Edition) H. C. Ballenger, Lea and Febiger, 1943; Chevalier Jackson: Bronchoscopy, Oesophagoscopy and Gastroscopy; D. H. Ballon: Chapters on Bronchoscopy and Oesophagoscopy in Surgical Diseases of the Chest by Evarts A. Graham, J. J. Singer, Harry C. Ballon.

RADIOLOGY

Associate Professor and Chairman of the Department . . . . . Carleton B. Peirce

Associate Professor . . . . . W. L. Ritchie

Assistant Professors . . . . . J. J. L. Bouchard, D. L. McRae, J. W. McKay

Demonstrators . . . . . A. C. McCurragh, G. I. Norton

First Year

In co-operation with the Department of Anatomy, demonstrations are given of the Roentgenologic anatomy of the skeletal, respiratory, gastrointestinal and urogenital systems, including fluoroscopic demonstrations of functional anatomy of joints, the thoracic viscera and the alimentary tract.

Associate Professor Peirce and Staff

Second Year

Introduction to Radiology

In co-operation with the Department of Medicine (Course II 2) as an introduction to special methods in Physical Diagnosis, the various means of Radiologic examination are demonstrated to small groups of students in the Montreal General Hospital and the Royal Victoria Hospital. The fluoroscopic and roentgenographic methods of study of the cardio-respiratory and gastro-intestinal systems especially are compared with the clinical means in physical examination

Associate Professor Peirce and Staff

Associate Professor Ritchie and Staff

Third Year

III Roentgen Pathology and Radiation Therapy:

A course of 20 lectures presenting the general features of rœntgen interpretation, systemic rœntgen pathology and the principles of rœntgen and radium therapy.

Associate Professors Peirce and Ritchie

Assistant Professors Bouchard, McRae and McKay

Fourth Year

IV-A Clinical Radiology:

(1) A course of six lectures on special clinical applications of rœntgen rays and radium radiation.

Associate Professors Peirce and Ritchie and Members of the Staff

IV-A (2) Conference periods, two hours weekly each quarter during which the students in the several hospitals discuss clinical case material with the Members of the Department.

Children's Memorial Hospital—Asst. Professor McRae
Montreal General Hospital—Assoc. Prof. Ritchie
Asst. Prof. McKay and Staff
Royal Victoria Hospital—Assoc. Prof. Peirce
Asst. Prof. Bouchard and Staff

IV-A (3) Tumour Conference: The final year students attend Tumour or Neoplasm Conferences in the several teaching hospitals, wherein all means of diagnosis and treatment of malignant neoplasms, especially, are considered by representatives of all departments of the teaching staffs and their experience reviewed.

POST-GRADUATE INSTRUCTION.

Post-graduate training prerequisite to certification in the specialty by the Royal College of Physicians and Surgeons (Canada) or the American Board of Radiology is available in the teaching hospitals to selected graduates of approved Faculties or Schools of Medicine.

Text and Reference Books:—Rœntgen Interpretation, Holmes and Ruggles; Text Book of Radiology, Shanks, Kerly and Twining; Diagnostic Radiology, Golden (et al); Head and Neck in Rœntgen Diagnosis, Pancoast, Pendergrass and Schaeffer; Rœntgenology, Kohler; Urological Rœntgenology, Wesson and Ruggles; Clinical Rœntgenology of the Cardiovascular system, Roessler; The Digestive Tract, Barclay; Theoretical Principles of Rœntgen Therapy, Pohle; Clinical Rœntgen Therapy, Pohle; Physical Foundations of Radiology, Glasser, Quimby, Taylor and Weatherwax.

GRADUATE INSTRUCTION

1. Any medical graduate of McGill University who so desires may attend any of the regular undergraduate clinics. This opportunity frequently appeals to many of our graduates, who find in this plan a means of bringing their knowledge of medicine up to date.

2. Special graduate work is offered in every department, both in the laboratories and in the clinics. Applications in writing, addressed to the chairman of the department concerned, must state the qualifications and experience of the applicant and the nature of the work he desires to do. The minimum fee is $30.00 a term (10 weeks).

A Diploma of Public Health and a Diploma of Tropical Medicine are granted by McGill University.

These courses are being conducted by the Department of Health and Social Medicine with the collaboration of other departments in the Faculty of Medicine and the assistance of members of other faculties in the University who have a special interest in this field. Practical instruction and application are made possible through the cooperation of the Department of Health of Montreal and voluntary health agencies.

The Department of Health and Social Medicine is housed in its new quarters at 490, Pine Avenue West, within easy access of the Medical Building. The building contains ample accommodation for lectures, seminars and demonstrations. In addition to the excellent facilities of the Library of the Faculty of Medicine, which are at the disposal of students, the Department has its own library and reading-room. The building is also the headquarters of the Student Health Service.

DIPLOMA OF PUBLIC HEALTH

The course is designed to train graduates in medicine in the increasingly wider concept of the public health service. It includes:

Sociology, with special reference to the practice of Medicine;

Statistical Methods from the point of view of providing an understanding of the fundamental principles of statistics as they are applied to medical science for the critical analysis of surveys and reports; instruction is given in carrying on research involving statistical techniques;

Vital Statistics, including Biometrics, stressing the importance of the accurate recording of essential data, observations and other findings, together with their practical significance and application;

Epidemiology as defined in its broadest sense, including communicable disease control and the assessment of morbidity in non-communicable diseases;

Public Health Law and its administration;

Hygiene of the Environment, including Sanitation, Housing and Nutrition; Physiological Hygiene;

Industrial Toxicology and Industrial Hygiene;

Hygienes (Physical and Mental): Maternal, Infant, Pre-School, School and Adult;

Bacteriology, Parasitology and Immunology, as related to public health practice;

Social and Economic Factors in Health; programs designed to deal with them;

Public Health Practice: The organization and administration of public health programs, including Preventive Medicine, especially as they pertain to the public health agency, the family physician and the social worker;

FIELD WORK: A period of three months' approved field work must be undertaken before the Diploma is granted. Facilities are available in fields of special interest, such as Tuberculosis, Venereal Disease, School Health, etc.

Candidates for the Diploma of Public Health must be graduates in Medicine of a recognized university.

The Diploma of Public Health course covers one academic year from September 15, 1947, to the end of April, 1948, with three months' additional field work.

The Fee for the Diploma of Public Health is $250.00, a portion of which—$25.00—the candidate is requested to deposit on acceptance of his application.

Registration is from September 13 to 20, 1947.

DIPLOMA OF TROPICAL MEDICINE

Tropical Medicine is coming to occupy a prominent place in medical education in North America as a direct outcome of the war and the rapid advance of aeroplane travel.

The present course in Tropical Medicine is a development of the short course given during the war to members of the armed forces. It has been revised and adjusted to post-war conditions.

The course of didactic instruction will occupy a full academic year. Classes for the first term will be in common with those for the Diploma in Public Health. Those for the second term will be held at the Institute of Parasitology at Macdonald College of McGill University. The teaching collection at the Institute is a large and representative one. The work will be practical as well as theoretical, and will include a study of Parasitology and Medical Entomology, laboratory diagnoses of tropical and sub-tropical diseases, and lectures on the diseases of the tropics, on tropical hygiene and minor sanitation.

Clinical instruction must, of necessity, be limited in temperate climates. This aspect is, therefore, deferred to the final part of the course which will be given in the tropics at the conclusion of the didactic instruction. The course consists of clinical and field work for which arrangements have been made with Georgetown, British Guiana, Port of Spain, Trinidad, and Venezuela.

Candidates for the Diploma of Tropical Medicine must be graduates in medicine of a recognized university. Certain additional courses may be required of those who are not recent graduates or of those who have not had sufficient clinical practice.

The Fee for the Diploma of Tropical Medicine is $150, or $50.00 if preceded by the D.P.H. course at McGill University, or $100.00 for those who have taken the D.P.H. elsewhere.

BUILDINGS

THE MEDICAL BUILDING

This building, erected in 1911, at a cost of over $600,000, contains the Offices of Administration, the Medical Library (with its 65,000 volumes, its Reading Rooms and their complete set of technical journals), the Departments of Anatomy, Health and Social Medicine, the Research Institute of Endocrinology and the Museums of Anatomy, Pathology and Ethnology. The Faculty of Dentistry is also in this Building.

The Department of Anatomy, with its commodious laboratories, its dissecting room, with 50 tables, and its very unusual abundance of material, affords unequalled facilities for students. Moreover, graduates who desire opportunities for research are adequately cared for in this Department. The Laboratories for Histology and Embryology have excellent facilities with space for 120 students, and smaller rooms for research.

THE BIOLOGICAL BUILDING

Completed in 1922 at a cost of over $500,000, this building was erected on the site of the original Medical Building, which was partly destroyed by fire in 1907. This extensive structure—184 feet by 60 feet—houses on each of its floors laboratories devoted respectively to Botany, Zoology, Biochemistry, Physiology and Pharmacology.

Each of these departments is amply provided with laboratories and units for undergraduate teaching and graduate research.

Adjacent to and connected with the Biological Building is the Laboratory for Experimental Surgery. This two-storey building contains two operating units with sterilization and anæsthetic rooms, as well as commodious quarters for the storage of animals and their care during convalescence. The equipment is very complete and includes a refrigerator plant and kitchen.

THE PATHOLOGICAL INSTITUTE

This building, which was opened for use in October, 1924, and which is connected with the Royal Victoria Hospital by a tunnel, is situated on the Northeast corner of University Street and Pine Avenue, adjacent to the Medical Building. It provides accommodation for the departments of Pathology and Bacteriology and includes a Pathological Museum and museum workshops. It combines under one roof quarters for teaching and research in these departments, both for the University and for the Royal Victoria Hospital. It provides ample facilities and equipment for instruction of students, and the research work of the Staff.

THE MONTREAL NEUROLOGICAL INSTITUTE

This eight-storey building, which is situated on University ground adjacent to the Pathological Institute and the Royal Victoria Hospital, was opened in 1934. Unsurpassed in its equipment and facilities for research, as well as the medical and surgical treatment of disorders of the nervous system, it houses the University Department of Neurology and Neuro-surgery, which conducts both undergraduate and graduate teaching in the Faculty of Medicine. In addition to wards, operating rooms, laboratories, etc., the building provides complete residential accommodation for six research fellows.

THE ALLAN MEMORIAL INSTITUTE

In 1943 a large building and site were donated as a basis for the development of an Institute of Psychiatry. The building has been reconstructed to permit of the establishment of a fifty bed unit, together with extensive research laboratories, and was officially opened July 12th, 1944. Plans have been drawn up for the carrying out of undergraduate and postgraduate teaching in the Faculty of Medicine.

HOSPITALS

Few medical schools on this Continent offer better facilities than those enjoyed by the students of McGill University. Ideal academic and topographical conditions exist for the teaching of scientific and practical medicine.

The Medical School is on the University Campus, and is thus in juxtaposition to the scientific laboratories of the University and to the largest teaching hospital in the city. Co-operation with the scientific and cultural departments of the University, as well as with clinical facilities, is thus made easy.

The following hospitals and institutions are at the disposal of the teaching staff and students for clinical and pathological study:—

Royal Victoria Hospital
Montreal General Hospital
Children's Memorial Hospital
Alexandra Hospital for Infectious Diseases
Verdun Protestant Hospital
Royal Edward Laurentian Hospital
The Royal Victoria Montreal Maternity Hospital

The staffs of these institutions are appointed with the co-operation of McGill University and, for the most part, are teachers in the Medical School. These affiliated hospitals contain over 3,000 beds.

THE ROYAL VICTORIA HOSPITAL, in juxtaposition to the University buildings, is a general hospital for acute diseases and contains 693 beds and 96 cribs. In a typical year, it cared for 16,637 cases, while in its out-door department 68,994 cases were treated. Many new additions have been made in the Hospital. A modern University Medical Clinic was established in 1924.

There were 66.2% post-mortems.

The number of resident physicians is 70.

THE ROYAL VICTORIA-MONTREAL MATERNITY PAVILION, with 214 beds for obstetrical and gynæcological cases, was opened in June, 1926. In this institution there are 117 teaching beds and an organized out-patient service which is of the greatest benefit to the undergraduate student. In a typical year, the obstetrical service cared for 2,252 confinements in the Hospital and 210 in the Out-patient Service. In the gynæcological section, 1,803 cases were admitted during the year.

There are ten resident physicians.

THE MONTREAL GENERAL HOSPITAL, CENTRAL AND WESTERN DIVISIONS, is a general hospital for the treatment of acute diseases and contains 600 beds. In a recent year there were 12,200 admissions. The number of patients' visits to the Out-Patient Department of both Divisions totals 174,977. Many modern additions to the original buildings have been made permitting increased bed capacity. There is a large biochemical laboratory fully equipped for the complete investigation of the metabolic aspects of disease and in conjunction with this department there is an out-patient clinic, one of the largest on the continent, for the treatment of diabetes mellitus. There were 573 autopsies performed which represents 85% of all autopsies obtainable, i.e., other than coroner's cases, etc. Post-mortem and surgical material at both Divisions is now used for teaching, and clinical teaching is carried out in the public wards at both Divisions. The number of resident physicians is 52. The Dental Clinic of the University completed in 1921 is located at the Central Division and has 50 dental chairs with a large and varied clientele. The number of visits to the Dental Clinic for a recent year was 19,065.

THE CHILDREN'S MEMORIAL HOSPITAL has 267 public beds, and, in a typical year, admitted 3,807 patients. The attendance at its out-door department totalled over 32,459 visits. This hospital admits all classes of cases of disease in children, and enables the students to get a broad

concept of pædiatrics. Of special interest are the newly-built wards with cubicles, the Department of Remedial Gymnastics, the Open-air Pavilions, and the well-equipped out-patient service.

There were 97 autopsies in the year, which represented 88.3% of all deaths.

The number of resident physicians is 12.

THE ALEXANDRA HOSPITAL FOR INFECTIOUS DISEASES, opened in 1906, with modern wards, cubicles and equipment, is regularly attended by students, who receive demonstrations on the essential features of the exanthemata.

There are 172 beds, and, in a typical year, 2,008 patients were admitted to the hospital. There were 14 autopsies.

The number of resident physicians is 3.

THE VERDUN PROTESTANT HOSPITAL has 1,100 beds.

THE ROYAL EDWARD LAURENTIAN HOSPITAL, in its new building, 3674 St. Urbain St., has space for 70 beds, with operating room, X-Ray equipment and modern facilities for the examination of patients; it is essentially a dispensary for tuberculosis and offers adequate material for teaching students the essential features of pulmonary disease.

The Royal Victoria Hospital is adjacent to the Medical School, while the other affiliated hospitals are within easy access. These hospitals, with their large clinical and laboratory facilities, and their close affiliation with the University, offer excellent opportunities for the study of disease in all its phases.

LIBRARY

Honorary Librarian.....R. L. STEHLE

The Library occupies the central front section of the medical building. It contains more than 65,000 bound volumes and an extensive collection of pamphlets, theses, government publications and other items.

On the third floor are the pleasant, well-lighted reading room capable of accommodating seventy-five readers, and the periodical room, the catalogue, the charging desk, and exhibits of library treasures. The second floor contains the book stacks and three study rooms available to members of the teaching staff. The first floor is devoted to the technical operations of the library—ordering, cataloguing, etc.

The chief value of the Library is in its periodical collection. Relatively little in the way of important journal literature in all languages is not available in it. The book collection contains many rare volumes.

some dating back to the sixteenth century. Among the books and journals the ophthalmological section, due in large measure to many gifts from the late Dr. Casey A. Wood, is excellent.

The Library is for the use of the members of the Teaching Staff, graduates of the Medical Faculty of the University, undergraduate students in the Faculty, graduates from other medical schools, showing proper credentials, and graduate nurses. Graduates living at a distance may borrow books and journals on payment of carriage both ways.

The Library is closed on Sundays, but is otherwise open daily during the academic session from 9 a.m. to 6 p.m., and 7.30 to 10.00 p.m., except Saturdays, when it is closed at 5 p.m. After June 15th it is open from 9 a.m. to 5 p.m.; Saturdays, 9 a.m. to 1 p.m. During July and August it is closed on Saturdays.

THE OSLER LIBRARY

Librarian.....W. W. Francis

This special library of the history of medicine and science, collected by Sir William Osler with a view to its educational value, was bequeathed by him to his Alma Mater. The Osler Library, which comprises nearly 9,500 volumes, occupies a large room, beautifully equipped, on the third floor, convenient to the Medical Library. The collection is rich in early editions of the older literature, as well as in modern historical works; and its importance and usefulness are much enhanced by the donor's annotated catalogue. Planned and prepared by Osler along very unusual lines, the catalogue was completed, indexed, and printed after his death ("Bibliotheca Osleriana," Clarendon Press, Oxford, 1929, xxxvi, 785 pp.).

The books are classified in eight sections, of which the first, the "Bibliotheca Prima," presents a bibliographical outline of the evolution of science (including medicine), and was planned to contain the essential literature arranged chronologically under the names of the greatest contributors to the advancement of knowledge. Another feature of the Library is its Incunabula, a valuable collection of 137 books printed in the fifteenth century.

The Osler Library is open daily, except Sunday, for the use of undergraduates and all who are interested. The Librarian will be glad to give advice or informal instruction to students. Accommodation is provided for readers. The books belonging to the original collection may not be borrowed or removed from the Library, but this restriction does not apply to the current works on the history and biography of medicine and science which are constantly being added.

MEDICAL SOCIETIES

1. THE McGILL UNDERGRADUATE MEDICAL SOCIETY

The Society is composed of the registered students of the Faculty. Its purpose is:—

(1) To transact all matters of business connected with the undergraduate body.

(2) To stimulate interest along medical lines.

(3) To assist students to express themselves in public with facility.

(4) To provide an enjoyable social evening, at the same time developing a strong spirit of faculty loyalty.

Meetings are held every alternate Monday, at which addresses are given by prominent professional men, medical and otherwise. Case reports are also read and discussed by the members themselves.

The annual meeting is the last meeting in the spring, when the following officers are installed: Hon. President (elected from the Faculty), President, Vice-President, Secretary, Assistant Secretary, Treasurer, Reporter and three Councillors (of whom two are chosen from the Faculty). These officers are elected by ballot one week before the annual meeting.

A prize competition has been established in the senior and junior subjects. The senior are open to all to write upon, while only students of the first three years are allowed to compete in junior subjects. The papers are examined by a board selected by the Faculty, and two prizes are awarded in each division. The papers are subject to the call of the Executive on December 1st, and must be handed in for examination before February 1st. The Society also controls the Students' Reading Room. English and American journals, as well as the leading daily newspapers are kept on file.

2. ALPHA OMEGA ALPHA HONORARY MEDICAL SOCIETY

This Society, which has Chapters in the various Medical Colleges of Canada and the United States, established a subsidiary branch at McGill University in 1912.

There are honorary, graduate and undergraduate members. Honorary members are selected from such teachers as are more particularly interested in the advancement of scientific medicine. Undergraduate members are selected from those students who, during their earlier academic career, have shown promise of development and have attained honour rank. They are eligible for election in the Third and Fourth years.

Meetings are held every month throughout the session, and papers are read by honorary and active members, as well as by graduates. Once during the year an open meeting is addressed by a visitor who is prominent in the medical world.

3. THE OSLER SOCIETY

The Osler Society was founded in the Spring of 1921 by a number of undergraduates in Medicine, its object being to perpetuate the memory and teachings of Sir William Osler by the reading of papers and discussion of topics reflecting his ideals of a liberal medical education. Thus those interested may supplement their clinical and scientific knowledge by the consideration of those topics of medicine which are of historical and literary significance.

The membership includes men from each class in the Faculty. Several professors have shown an active interest in the Society and have added a more mature note to the discussion. Each year an Honorary President has been elected from this older group.

McGILL UNIVERSITY

MONTREAL

FACULTY OF MEDICINE

COURSES OF GRADUATE INSTRUCTION

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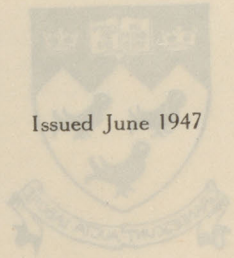
COURSES OF GRADUATE INSTRUCTION



Issued June 1947

COURSES IN GRADUATE STUDY AND TRAINING TOWARDS DIPLOMAS IN THE CLINICAL DEPARTMENTS OF THE FACULTY OF MEDICINE

The necessity and value of organized graduate study and training in various clinical departments of the Faculty of Medicine leading to a Diploma have been appreciated for a considerable time.

It is the purpose of the Medical Faculty that such study and training be so arranged as to meet the requirements and capacities of graduates in Medicine. It is appreciated that many candidates may not, for a number of reasons, be able to complete the full period of training, but if these have pursued at least two years of training in a specialty, in addition to the pre-requisites for a Diploma, they will receive a certificate to this effect signed by the senior teachers, under whom they have taken their training. This will not be after the manner of a certificate or diploma issued by McGill University.

It must also be appreciated that the number to be accommodated each year will be strictly limited for several reasons. It is important that the excellence of the training shall not be handicapped by the clinical and laboratory facilities being overtaxed.

The following general regulations will be followed:

1. In each clinical department offering courses towards a Diploma there will be a small committee, under the Chairman of the Department. This committee shall be responsible for the selection of candidates, the general outline of the work which each candidate will follow and the appointment of a tutor for each candidate.

2. It will be hoped that each student will spend his period of study and training in more than one hospital. This would provide a more diversified clinical experience.

3. The fees to be charged shall be as follows:

(a) A student proceeding to the degree of Master of Science or Doctor of Philosophy will necessarily be enrolled in the Faculty of Graduate Studies and Research and would, therefore, come under the regulations, including fees, as laid down by this Faculty.

(b) In the case of a student who is not proceeding to an M.Sc. or Ph.D., but for whom the committee in charge, on the recommendation of the tutor, considers it important that the student should spend

some time in study in one of the medical sciences, individua arrangements will be made by the Chairman of the Department, either directly or through the student's tutor with the Chairman of the Medical Science concerned. Such students would be enrolled in the Faculty of Graduate Studies and Research and would be governed by the rules and regulations of this Faculty in regard to fees, etc., applicable to partial students.

(c) The courses will be open to other than McGill graduates and entrance to the courses after the pre-requisite year would be permitted to suitable graduates from other universities; while McGill graduates would be permitted to spend part of their time at other universities or hospitals if their needs and interests would be benefitted thereby.

(d) Candidates may apply to enter a course who have already fulfilled the pre-requisites and part of the graduate study and training. Each student must spend at least two years of graduate study and training in a clinical department of the Faculty of Medicine of McGill University. This curtailment of the time required may be particularly applicable to medical officers who have served in the Armed Forces and who desire to proceed to further graduate study and training. Acceptance of such applicants will rest with the several departmental committees.

Initial inquiries may be directed to the Secretary of the Faculty of Medicine.

COURSES OF GRADUATE INSTRUCTION

DIPLOMA IN INTERNAL MEDICINE

Pre-requisites: (a) A degree from an approved Medical School.
(b) One year's rotation interneship or an interneship in Medicine, Pathology, Bacteriology, Clinical Biochemistry, Clinical Physiology or a combination thereof.

At least two years of the course must be spent at McGill University or its teaching hospitals and at least two years must be spent in clinical work in Medicine.

First Year of Graduate Training: A senior interneship or assistant residency which would include training in Internal Medicine, and a certain amount of training in Neurology, Psychiatry, Tuberculosis, Radiology, Dermatology or Syphilology.

Second Year of Graduate Training: A senior interneship or assistant residency to cover certain subjects not taken in the first year of graduate training.

Third Year of Graduate Training: This year may be taken as a resident in Internal Medicine or as a Fellow in Medical sciences or clinical investigation.

Fourth Year of Graduate Training: This year may be employed as an alternate of the preceding year. It is possible for a candidate to spend two years as a senior interne or assistant resident and two years as an externe or fellow in medical sciences or clinical investigation.

The first year as an externe or fellow is usually the research or investigative year. The fellow during this year has no responsibility for the routine care of patients. Each student would undertake an investigative problem suited to the particular branch of medicine in which he was interested. This problem could either be of an experimental or clinical investigative nature. The problem would be undertaken in the department in which the interests and knowledge of the staff and the facilities available were best suited to its pursuit. The student's research would be under the direction of a member of this department. He might enrol in the Faculty of Graduate Studies and Research towards the degree of M.Sc.,

The second year as an externe is usually spent in clinical work according to the branch of Internal Medicine in which the student is interested. A part of this year should be spent in clinical training in those aspects of such subjects as Psychiatry, Neurology, Dermatology, Radiology, etc., which are necessary for training as an internist. In certain cases

an assistant residency in the specialties of Paediatrics, Psychiatry, Neurology, etc., might be substituted for the Assistant residency in general medicine.

In the case of students who become medical residents in their third year, the fourth year would be an investigative year. It would also be possible for a fourth year graduate student to become medical resident after his investigative year or for certain students to spend two years as a fellow in investigative work.

If the candidate has not taken an interneship in Pathology as a prerequisite he may take a year in Pathology as an interne to fulfill one of the years of the course. This cannot be counted as the investigative year and if he does this it is felt desirable that he take his investigative year in a clinical department.

The formal training consists of a course of lectures and colloquia which extends over two years. Ordinarily this course is taken in the third and fourth years of the course but if an individual intends to spend these years away from McGill the lecture course should be taken in the first two years. In connection with the lecture course references for further reading are given by each lecturer. During the course of the year a number of authorities on the subjects covered in the course are invited from outside McGill to give a lecture and colloquium in their special subject. In addition to the lecture course there is a course of seminars presented by the candidates themselves.

The entire course is under the general direction and correlation of a Committee of the University Department of Medicine with advice from the various other departments concerned and of the teaching hospitals. It is also required that interchange of students takes place between the teaching hospitals and the University Departments.

Throughout the course individual needs of the student will be considered wherever possible and private reading by him will be encouraged To assist the student in planning his course there is a tutorial system, each student being assisted by that member of the staff most competent so to act. It is clearly understood that the function of the tutor is to assist the student to train himself rather than to plan his career for him. The senior students will be given opportunities to teach undergraduates and junior graduates in order to gain experience in teaching methods.

Oral examinations on the general clinical knowledge of the candidates are held at the end of the first and second years. A comprehensive written and oral examination covering the lecture course and the general field of medicine is held either at the end of the third or fourth year of the course according to the choice of the candidate. At the end of the

investigative year a thesis must be presented. This should be approximately 50-100 pages in length. Three copies of the thesis are to be submitted. An abstract of approximately 200 words should be submitted with the thesis. One copy of the thesis will be returned to the candidate. An oral examination will be held at the end of the investigative year at which the candidate will be expected to give an account of his investigation and answer questions thereon. In the case of those candidates who take an M.Sc. degree in the Faculty of Graduate Studies during their investigative year, passing the examinations and presenting a satisfactory thesis for this degree will be accepted as fulfilling the requirements for the investigative year of the course without further examination. In this instance one copy of the thesis and two copies of the abstract of the thesis should be submitted to the Committee.

The nature of the Diploma Course is such as to give a sound training in internal medicine and to prepare candidates to take the examinations of the Royal College of Physicians of Canada or the Board of Internal Medicine in the United States and it is hoped that candidates will take either of these examinations after completing the course.

DIPLOMA IN SURGERY

Pre-requisites: (a) A degree from an approved Medical College or School.
(b) One year's rotation interneship.

First Year of Graduate Training: Senior interne on a surgical service of one of the teaching hospitals, not necessarily in the same hospital for the whole year.

Second Year of Graduate Training: The graduate student will be encouraged to seek enrolment in the Faculty of Graduate Studies and Research in one or more of the departments of the Faculty, such as Anatomy. Bacteriology, Biochemistry, Pathology and Physiology. If previous training is adequate this year will be spent in study towards the degree of M.Sc,

As an alternative to study in the Faculty of Graduate Studies and Research it may be possible to arrange that this year be spent in one of the hospital departments of Medicine or Pathology.

Third Year of Graduate Training: During this year the student would return to hospital practice in one or more of the participating hospitals. He would hold the rank of assistant resident in one of the hospitals. Moreover, he would be allowed permission to indicate special interest in a branch of Surgery such as Surgery of Children, Surgery of Trauma, Thoracic Surgery, etc. It would not, however, be necessary that such a decision be made at this time.

At the completion of the third year period an opportunity would be given to both the graduate student and to the Department of Surgery to reach a decision as to whether two years further training is desirable.

Fourth Year of Graduate Training: During this year a travelling allowance may be made available so that, either by an exchange or other method, opportunity would be given to visit other clinics presumably, for the most part, on this continent or in Great Britain.

Fifth Year of Graduate Training: Resident in Surgery in not more than two services of the teaching hospitals. The question of whether the position of resident should be in one of the special branches of Surgery or in general Surgery would be determined by the Departmental Committee on the recommendation of the student's tutor.

Selection of Candidates: Strict supervision is taken in the selection of candidates. They are chosen by a committee made up of a representative of each of the participating hospitals and several representatives of the Departments of Medical Sciences of the University.

Vacancies will be limited to four a year.

It will be expected that either during the fourth or fifth year the graduate student will prepare himself for examination for Fellowship in the Royal College of Surgeons of Canada.

Although no special examination is contemplated for the Diploma, award of the Diploma will be dependent upon a satisfactory report to the Departmental Committee.

DIPLOMA IN OBSTETRICS AND GYNAECOLOGY

Pre-requisites: (a) A degree from an approved Medical College or School.

(b) Rotating service as a junior interne to include as far as possible Medicine, Surgery, and Obstetrics, but as an alternative a year in Medicine.

First Year of Graduate Training: As an interne in Obstetrics and Gynæcology. If this subject has in part been taken already in the pre-requisite year an equivalent period of time will be taken in laboratory work in Pathology or Bacteriology.

Second Year of Graduate Training: This year will be occupied either as an assistant resident in the Department or as a fellow.

Third Year of Graduate Training: The student will either be resident or a fellow. If the former he will be in charge of the clinic and will devote his time to clinical work and teaching. If the latter he will devote his time to scientific or clinical investigation of problems determined by the Departmental Committee on the recommendation of his tutor.

Fourth Year of Graduate Training: It is deemed advisable that every student should spend one year at least as a resident, but under special circumstances this ruling may be rescinded and a student spend two or more years as a fellow. Part of this period may be devoted to enrolment in the Faculty of Graduate Studies and Research towards an M.Sc. degree or be spent at extra mural clinics approved by the Departmental Committee.

Fellows would be required to pursue studies in one or more of the following subjects:

ANATOMY AND EMBRYOLOGY

General instruction in the anatomy and development of the pelvis and pelvic organs. The gross anatomy of the abdomen and special dissections in the field of pelvic anatomy. Special study of the pelvic bones and where possible comparative anatomy. The opportunity of demonstrating anatomy to the undergraduate students would be a special part of this training. While certain didactic teaching doubtless would be advisable the training would be, in large part, in the practical work of the Department.

PHYSIOLOGY

A study of the principles underlying the function of the pelvic bones. The relation of œstrus to menstruation as observed in the laboratory animal and the disorders of function observed in the human reproductive system.

PATHOLOGY

The graduate student would serve in the University Department of Pathology, and in the Department of Pathology of the Department of Obstetrics and Gynæcology. During the period of study attendance at the staff conferences, autopsies and teaching periods would be required.

BACTERIOLOGY

Time would be devoted to study of general bacteriological methods with special attention to the determination of the bacteriological flora of the genital tract in health and disease.

BIOCHEMISTRY

For the occasional student, special instruction would be required in the general field of biochemical investigation. The principal techniques in the assay of blood and urine for the determination of glandular function as related to the action of the sex glands, together with a working knowledge of liver and kidney function tests.

(1) A comprehensive examination will be required at the end of the course. It will be necessary to submit a Thesis relative to some special phase of work the applicant has completed.

(2) Vacancies will be limited to three a year.

DIPLOMA IN PAEDIATRICS

Pre-requisites: (a) A degree from an approved Medical College or School.
(b) One year's interneship in Medicine, a general rotating interneship, or an interneship in Pædiatrics.

First Year of Graduate Training: A senior interneship or assistant residency in Pædiatrics, including a period in infectious diseases if not already taken.

Second Year of Graduate Training: A residency in Pædiatrics, including special studies in Pædiatric Pathology, Psychiatry, Neurology, Biochemistry, etc.

Third Year of Graduate Training: A teaching fellowship in Pædiatrics with opportunities for research in special problems.

Fourth Year of Graduate Training: A continuation of the teaching fellowship and research activities.

The rotation of the last three years may be modified by the Departmental Committee on the advice of the tutor to suit special circumstances.

With the permission of the Departmental Committee on the recommendation of his tutor, one or any two of the last three years may be spent in another approved clinic.

During the last two years the candidate may enroll in the Faculty of Graduate Studies and Research for fulfillment of the requirements of an M.Sc.

There will be one vacancy each year.

DIPLOMA IN PSYCHIATRY

Pre-requisites: (a) A degree from an approved Medical College or School.

(b) A general interneship of one year's duration.

First Year of Graduate Training: This year must be spent at the Allan Memorial Institute either as a senior interne or as an assistant resident.

Second Year of Graduate Training: This year must be devoted to work partly at the Verdun Protestant Hospital and partly at the Montreal Neurological Institute.

Students planning for a research career should spend this year in the Faculty of Graduate Studies and Research towards an M.Sc. working in the laboratories of the Montreal Neurological Institute or in the Department of Biochemistry, Endocrinology, Sociology, Psychology, etc., depending upon the special aspects of research to which his thesis and investigation are devoted.

Third Year of Graduate Training: It is recommended that this year should be spent at an extra mural institution either as a fellow or by an exchange arrangement. This would apply with equal emphasis whether the student's training were being directed either to clinical pursuits or primarily to basic research.

Fourth Year of Graduate Training: This year would be spent as resident or senior assistant resident in the Allan Memorial Institute depending on the vacancies available. If the student were devoting his graduate training towards a research career this year would be spent in the laboratories of the Allan Memorial Institute, in advanced investigative work, in conjunction with the research personnel.

Substitutions and rearrangements can be made with the consent of the departmental committee.

The number of vacancies would be restricted to two per year.

DIPLOMAS IN NEUROLOGY AND NEUROSURGERY

Registration of an applicant in the diploma course for neurology or neurosurgery may be made after recommendation is forwarded by the Professor of Neurology and Neurosurgery to the Dean. Registration is possible in some cases after the candidate has begun his work.

DIPLOMA IN NEUROLOGY

Pre-requisites: (a) A degree from an approved Medical College or School.
(b) One year's interneship in a recognized hospital in Medicine.

In order to qualify for the Diploma in Neurology the candidate must complete, in addition to the above pre-requisites, the following units:

A. One academic year of work in a basic science which leads successfully to the degree of Master of Science in the Faculty of Graduate Studies and Research of McGill University. This basic science must be in a related field, such as Neuro-pathology, Neuro-physiology, Neuro-anatomy, Bio-chemistry, Endocrinology, etc., together with required cognate courses. The work may be carried out as arranged either in the Department of Neurology and Neurosurgery or in some other department of McGill University. The subject of the investigation followed towards this degree must receive approval from the Committee of the Department of Neurology and Neurosurgery.

B. Six months in *Psychiatry* in the Department of Psychiatry at McGill University. (Note: Under special circumstances the candidates may substitute six months in the Department of Psychiatry in some other accredited hospital or university).

C. Six months in Neuro-surgery at the Montreal Neurological Institute (Note: Under special circumstances a candidate may substitute neuro-surgical training received in the neuro-surgical department of some other accredited hospital or university).

D. One year of service in clinical Neurology at the Montreal Neurological Institute, including work in Neuroanatomy.

E. A three-month period during which the candidate will devote his mornings to x-ray and electroencephalography and his afternoons to work in out-patient clinics at the Montreal General, Royal Victoria and Children's Memorial Hospitals. He will also carry out the commoner biochemical tests in use in clinical studies of the nervous system. In case the candidate has had extended experience in any of these subjects this quarter may be altered according to his qualifications.

F. *Oral Clinical Examination.* Before receiving the diploma the candidate must successfully pass an oral examination in clinical Neurology and Neurosurgery. There will be one internal and one external examiner.

DIPLOMA IN NEUROSURGERY

Pre-requisites: (a) A degree from an approved Medical College or School.
(b) One year's interneship in general surgery.

In order to qualify for the diploma in Neurosurgery the candidate must complete, in addition to the above pre-requisites, the following units:

A.** One academic year of work in a basic science which leads successfully to the degree of *Master of Science* in the Faculty of Graduate Studies and Research of McGill University. This basic science must be in a related field, such as Neuro-pathology, Neuro-physiology, Neuro-anatomy, Biochemistry, Endocrinology, etc., together with the required cognate courses. The work may be carried out as arranged either in the Department of Neurology and Neurosurgery or in some other department at McGill University. The project must receive approval from the Departmental Committee of the Department of Neurology and Neurosurgery on the recommendation of the student's tutor.

B. Six months in *clinical neurology* at the Montreal Neurological Institute. (Note: Under special circumstances, credit for six months of clinical Neurology in some other accredited hospital or university department of Neurology may be accepted).

C.** Six months in special work in a *related field* such as Neuro-physiology, Neuro-anatomy, Neuro-pathology, Biochemistry, Endocrinology, Metabolism, Psychiatry, etc., acceptable to the Departmental Committee of the Department of Neurology and Neurosurgery.

D. Two years in *clinical Neurosurgery* at the Montreal Neurological Institute.

E. *Oral clinical examination.* Before receiving the Diploma, the candidate must successfully pass a final oral examination on clinical Neurology and Neurosurgery to be conducted by an internal and an external examiner.

**Either unit A or C must be carried out in the Department of Neuropathology at the Montreal Neurological Institute.

DIPLOMA IN OPHTHALMOLOGY

Pre-requisites: (a) A degree from an approved Medical College or School.

(b) One year junior interneship in a recognized hospital.

First Year of Graduate Training: A junior interneship in the Department of Ophthalmology of either the Montreal General or the Royal Victoria Hospitals.

Second Year of Graduate Training: This year will be devoted to study in the Medical Sciences, which may comprise work in Anatomy, Physiology, Biochemistry, Bacteriology, Pathology, Physics, or Pharmacology, or any combination thereof, as arranged by the Departmental Committee on recommendation of the candidate's tutor. It is also recommended that a course in statistics should be taken during this year.

A primary examination in the Medical Sciences will be held at the end of this year.

Third Year of Graduate Training: This year will be spent as a senior interne or resident in the Department of Ophthalmology in either the Montreal General or the Royal Victoria Hospitals.

Fourth Year of Graduate Training: During this year the candidate will be required to prepare a thesis, the subject of which may be of his own choice, on the approval of his tutor. He will be given guidance by the staff of the Departments of Ophthalmology of the Montreal General and the Royal Victoria Hospitals and arrangements will be made by the head of the Department of Ophthalmology, or through the candidate's tutor, for assistance to be made available by the staff of other departments of the University to which the subjects of his thesis may be particularly related. The thesis will be in part fulfilment of the requirements for the Diploma.

There will be one vacancy available each year.

The sequence as above stated may be varied to meet existing conditions.

It is necessary that two of the four years be spent at McGill University Centre, the other two years may be spent at some other recognised centre providing the necessary requirements are fulfilled.

DIPLOMA IN OTOLARYNGOLOGY

Pre-requisites: (a) A degree from an approved Medical College or School.

(b) A junior rotating interneship or one in Medicine and Surgery.

First Year of Graduate Training: This year will be devoted to clinical work in the three teaching hospitals of McGill University. The first six months the candidate will act as an interne in one or other of the general hospitals and in the second six months he will concentrate on otolaryngological problems in children in a children's hospital or in a contagious diseases hospital.

Second Year of Graduate Training: The second year will be devoted to study and research in basic training in Anatomy, Physiology, Bacteriology, Pathology, Pharmacology, Biochemistry or Physics, in so far as it refers to Otolaryngology. If the candidate's course of study and research is approved by the Faculty of Graduate Study and Research he may be enrolled in that Faculty towards the degree of M.Sc. The candidate will be required to take a special course in Applied Anatomy of the head and neck, an operative course on the cadaver dealing with Otolaryngological subjects and make intensive study of the physiology of hearing and the vestibular apparatus.

Third Year of Graduate Training: Special emphasis will be placed on practical instruction with the candidate fulfilling the duties of resident in Otolaryngology if possible devoting his time equally between the two general hospitals, i.e., six months at each.

Fourth Year of Graduate Training: This year will be devoted to travel or exchange with another Otolaryngological clinic. The candidate will be encouraged to visit outstanding clinics both on this Continent and abroad for the purpose of becoming familiar with special techniques or problems in research.

If a candidate does not proceed to his M.Sc. a thesis acceptable to his tutor and the Departmental Committee will be required before the candidate will receive his Diploma in Otolaryngology.

There will be one vacancy available each year.

DIPLOMA IN RADIOLOGY

Pre-requisites: (a) A degree from an approved Medical College or School.

(b) One year of junior interneship in Medicine, Surgery or a rotating service.

First Year of Graduate Training: This year should be devoted to the fulfillment of courses for the degree of Master of Science in a cognate subject, such as Anatomy, Physiology, Pathology or Physics.

Second Year of Graduate Training: Senior interneship in Radiology in one of the teaching hospitals.

Third Year of Graduate Training: Assistant resident in Radiology in two or more of the teaching hospitals.

Fourth Year of Graduate Training: Resident in Radiology in one of the teaching hospitals, of which six months may be spent as an exchange with a Department of Radiology in another medical centre, subject to the approval of the Departmental Committee. It would also be incumbent upon the student during this year, under the guidance of his tutor, to complete the problem of investigation which he had been assigned by the Departmental Committee.

There will be two vacancies each year.

DIPLOMA IN UROLOGY

Pre-requisites: (a) A degree from an approved Medical College or School.

(b) *Two years* of interneship which with advantage should comprise six months in Medicine, six months in Pathology, six months in Gynæcology.

First Year of Graduate Training: At one of the general hospitals of McGill University as a junior interne in the Department of Urology.

Second Year of Graduate Training: Assistant resident in one of the Departments of Urology.

Third Year of Graduate Training: Resident in one of the Departments of Urology.

No thesis will be required but one or more papers on Urological subjects must have been published in recognized journals of this specialty.

There will be two vacancies each year.

DIPLOMA IN DERMATOLOGY AND SYPHILOLOGY

Pre-requisites: (a) A degree from an approved Medical College or School.
(b) *One year's* rotating internship or an interneship in Medicine or Pathology or a combination thereof.

First Year of Graduate Training: A senior internship or Assistant Residency in Dermatology and Syphilology at one of the teaching hospitals affiliated with McGill University. The work of this year should be largely clinical. During this year the graduate student will be required to do extensive reading in the basic sciences as applied to his specialty, as well as in Internal Medicine.

Second Year of Graduate Training: This year will be taken as a fellowship year devoted to further study and investigation of one or more problems as determined by the head of the Department. This will require of the graduate student particular attention to and study of those aspects of the basic sciences which are applicable to the investigative problems he has in hand.

Third Year of Graduate Training: This year may be taken as a Resident in the Department of Dermatology and Syphilology. The candidate will continue his investigative problems and will be expected to take some part in the teaching of undergraduate students.

The entire course will be under the supervision of the chiefs of the Dermatological Service of the Montreal General and the Royal Victoria Hospitals. They will be responsible for the training of the graduate directly attached to their respective clinics. A close co-ordination of training in the best interests of the graduate student as between the two hospitals staff will be developed to the utmost. The instruction will be largely of the preceptor-student type with some exceptions in the special basic and associated sciences.

These latter studies will be largely undertaken in the first two years of graduate study. Those aspects of Embryology, Histology, Physiology, Biochemistry and Bacteriology, as related to Dermatology will be studied by the student. These courses of study will be outlined for him and it will be his responsibility to master them thoroughly.

Histopathology of the skin will be emphasized throughout the entire course of training. The graduate student will be required to make a special study of the practical aspects of Immunology and Serology, Mycology, Parasitology and Bacteriology and Allergy in their relation to Dermatology and Syphilology.

All graduate students in this course will be expected to attend a general course of lectures on the Recent Advances in Medicine available to all students enrolled in diploma courses in clinical subjects conducted under the Medical Faculty of McGill University.

There will also be departmental colloquia, seminars and clinical conferences which will be compulsory, as well as attendance at Medical, Pathological and Surgical staff conferences and the meetings of the local medical societies.

DIPLOMA IN ANAESTHESIA

Pre-requisites: (a) A degree from an "approved" University.
(b) One year's internship, in Medicine, or in a rotating manner.

Three years of Graduate Training:

(a) Each Candidate must be a Resident Anaesthetist for three years in several hospitals, approved of by the Anaesthetists of McGill University, and must rotate from one hospital to another every six months.

(b) Each hospital allows the candidate to attend laboratory *Courses*, without interruption, at the times set by the Department.

(c) The Laboratory Courses are arranged with the Chairmen of the Departments of: Anatomy, Biochemistry, Pharmacology, and Physiology. In each instance the *pervading* idea is that of Anaesthesia. In Anatomy there are 16 periods of 2 hours each. In Biochemistry there are 12 periods of 3 hours each. In Biochemistry there are 12 periods of 3 hours each. In Pharmacology there are 6 periods of 1 hour each. In Physiology there are 10 periods of 3 hours each.

(d) Throughout the three-year course, once-a-week, evening *colloquia* are conducted for the purpose of discussing interesting cases.

(e) Throughout the three-year course, once-a-week, *Seminars* are directed. In these, each candidate is given opportunity to report on allocated literature and to learn how to teach.

FACULTY OF GRADUATE STUDY AND RESEARCH OPPORTUNITIES FOR TRAINING AND RESEARCH IN MEDICAL SCIENCES

Department	*Fields of Work*	*Full Time Research Workers and Other Positions*	*Graduate Students*
Anatomy.	General advanced Anatomy or Advanced Anatomy with special reference to a particular field, e.g., Orthopædic Surgery, Neuroanatomy, etc. Any anatomical or physical anthropological problem in which candidate is interested.	2 teaching fellows who wish to take up Anatomy as a career.	
Anatomy (Histology Division).	Endocrinology; Experimental therapeutics; histology.	Part time demonstrator in histology; 3 full time research workers.	Probably 4 graduate students.
Physiology.	Physiology.	2 — conditional upon research funds available.	2 working towards M.Sc. or Ph.D.
Biochemistry.	Advanced *Lecture* courses offered by Department. If sufficient demand would consider offering special courses, e.g., in Clinical Biochemistry.	Research workers accepted only if they have special training or after preliminary year in advanced Biochemical lecture courses.	Groups of 12 in advanced *lecture* courses. Not more than 8 in laboratory or research courses.

Department	*Fields of Work*	*Full Time Research Workers and Other Positions*	*Graduate Students*
Pharmacology.	Experimental Pharmacology.		2 at most.
Endocrinology.	Endocrinology.	2 full time research workers.	Possible 6 graduate students.
University Clinic.	Medicine.	2 - 3 Fellows Research and Teaching.	4 - 5 for M.Sc. or Ph.D.
Pathology.	Pathology.	3 Teaching Fellowships available to candidates with at least one year's training.	Three for M.Sc or Ph.D.
Bacteriology.	Bacteriology and Immunity.	None.	Four for M.Sc. or Ph.D.

McGILL UNIVERSITY

MONTREAL

FACULTY OF DENTISTRY

1947 - 1948

McGILL UNIVERSITY

FACULTY OF DENTISTRY

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L., LL.D.
Dean of the Faculty of Dentistry...A. L. Walsh, D.D.S., F.A.C.D.
Comptroller and Executive Assistant to the Principal.....S. H. Dobell, D.S.O.
Bursar.....William Bentley, C.G.A.
Registrar.....T. H. Matthews, M.A.

A complete list of the teaching staff of the University, including the Faculty of Dentistry, is printed as a separate announcement, which may be obtained from the Registrar's Office.

REQUIREMENTS FOR ENTRANCE

The minimum requirement for admission to the dental course is the satisfactory completion of two full years of study in a recognized college or Faculty of Arts and Science (or the equivalent thereof), including courses in the following subjects: Physics, one year with laboratory work; Biology, one year of General Biology or Zoology with laboratory work (half year of Botany and half year of Zoology will be accepted, but not one year of Botany alone); Chemistry, two full courses, including one full course of Organic Chemistry with laboratory work.

In the case of those who intend to practise in the Province of Quebec it is essential that the candidate should:—

(a) take at least the second of the above two years in a recognized English University of this Province, or

(b) hold a Bachelor's degree from any recognized university in Canada, thus qualifying for eligibility to register with the College of Dental Surgeons of the Province of Quebec in the study of Dentistry.

Courses meeting these requirements are offered in the Faculty of Arts and Science of McGill University, where a student may take the two years of study required, or the second of the two if he has satisfied the requirements of the first by Senior Matriculation, or otherwise.

Particulars of the Junior and Senior Matriculation Examinations are given in the School Certificate Announcement.

PROVINCIAL REGISTRATION

Intending students are reminded that a University degree in Dentistry does not in itself confer the right to practise the profession of Dentistry. It is necessary to comply with the dental laws of the country, state or province in which it is proposed to begin pratice. Each province in Canada at present has special requirements for its license, and in all of them a certain standard of general education is insisted upon before the study of Dentistry may be begun. *Students who intend practising in Canada are advised to register their qualifications in the province in which they intend to practise, before they begin their university course.*

The following is a list of the Registrars of the Dental Boards of the several Canadian provinces. Students are advised to write for information whenever they are in doubt as to the regulations of any province.

**Ontario*—D. W. Gullet, 211 Huron Street, Toronto, 5.
**Nova Scotia*—A. B. Haverstock, Roy Bldg., Halifax.
**New Brunswick*—F. C. Bonnell, D.D.S., 183 Princess Street, Saint John.
**Prince Edward Island*—Heath McIntyre, D.D.S., Charlottetown.
**Manitoba*—J. F. Morrison, D.D.S., 403 Medical Arts Bldg., Winnipeg.
**Alberta*—R. A. Rooney, D.D.S., 523 Tegler Bldg., Edmonton, Alta.
**Saskatchewan*—L. J. D. Faskin, Regina.
Quebec—Dr. Denis Forest, 3632 Park Ave., Montreal.
**British Columbia*—W. J. Lea, 1320 Medical Dental Building, Vancouver.
Newfoundland—A. B. Kennedy, Water Street, St. John's.

DOMINION DENTAL COUNCIL OF CANADA

Seven of the nine Canadian provinces (*i.e.*, all but Quebec and British Columbia) have entered into an agreement whereby the holder of a certificate granted by the Dominion Dental Council may practise in any of the subscribing provinces. In order to obtain this certificate a candidate must: (1) hold a matriculation certificate of the proper standard; (2) be a graduate of a Dental College within the agreeing Provinces or take the Class D Examination after five years practising in an agreeing Province; (3) pass the examination set by the council, and (4) pay the local and provincial registration fee.

The Secretary of the Dominion Dental Council is Dr. A. J. Brett, Regina, Sask.

REGISTRATION

First and Second Year students in Dentistry register at the Registrar's Office on Tuesday, September 2nd. Third and Fourth Year students in Dentistry register at the Registrar's Office on Monday, September 8th. Any student registering after the specified date will be required to pay a late fee. No students will be admitted after September 20th.

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*Members of the Dominion Dental Council.

FEES

Tuition Fees

1. Annual undergraduate fee for British* students $329.00
   By instalments: Each of two instalments 167.00

   Annual undergraduate fee for Non-British* students 369.00
   By instalments: Each of two instalments 187.00

REPEATING A YEAR

2. British students repeating a year pay 329.00

   Non-British students repeating a year pay 369.00

3. Qualified partial students are admitted to one or more courses on payment of special fees. For further particulars consult the Dean's Office.

4. A Dental Cabinet may be rented during the academic year for a fee of $10.

5. A Microscope may be rented during the academic year for a fee of $7.50.

6. In Second Year—Crown and Bridge Model $30.00

7. Third Year—Orthodontia material 20.00

8. Student Fees. Fees for support of student organizations:
   Regular Students 10.00
   Partial Students 5.00

9. Ad Eundem Fee:
   Students entering any year above the first pay a special ad eundem fee of 10.00

General Regulations

10. Fees are due and payable at the Bursar's Office between the hours of 9 a.m. and 4.00 p.m., on September 2nd and 3rd; but they may be paid before the above dates. The second instalment of tuition fees is due and payable on February 1st. An additional $2 is charged for payment after the specified dates. All special fees are payable in full with first instalment.

11. Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of Regulation 10.

12. Immediately after the prescribed dates for the payment of fees, the Bursar sends to the Dean of each Faculty, a list of the registered students who have not paid their fees. The Deans thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Chief Accountant.

Note: Special fees are given in the General Information Pamphlet included in this announcement.

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*Domicile will in general determine whether a student pays the British or the Non-British fees. A student who is uncertain which rate he will be required to pay should consult the Registrar.

INSTRUMENTS

With the exception of extracting instruments, lathes, and vulcanizers, each student is required to furnish his own instruments and appliances for both laboratory and operating room, and is not permitted to enter the Course until he is thus supplied.

The approximate cost of instruments and supplies for the First and Second Years, which includes an Anatomical Articulator, an Engine and a Crown and Bridge Model, is $350.00

Third Year approximate cost..... $100.00
Fourth Year approximate cost..... 75.00

All of these instruments and this equipment will be required for office use when the student enters practice and should be regarded as an investment for that purpose rather than a university expense.

Arrangements have been made with local Dental Supply Houses in order that the student may benefit by a special trade discount.

MEDALS AND PRIZES

The Montreal Dental Club Gold Medal, and a prize in books.—Awarded to the student in the Final Year who stands first in the science and practice of Dentistry. The standing is determined not only by the written and practical examinations at the end of the year, but by the general work of the student during the four years.

The College of Dental Surgeons of the Province of Quebec.—A prize of twenty-five dollars awarded to the student, registered in this Province, obtaining the highest standing in the practical examinations of the Final Year.

Canadian Dental Association War Memorial Scholarship Award: First Prize $125.00; Second Prize $75.00. To be awarded annually.

The contest is open to all undergraduates of the final year who have been in attendance for at least two years at Canadian Dental Schools. The essay shall consist of from 2,500 to 3,000 words.

Correspondence relative to this Scholarship should be addressed to The Secretary, Canadian Dental Association, 211 Huron St., Toronto.

The Lieutenant-Governor's Silver Medal, and a prize in books.—Awarded to the student in the Final Year who stands second in the class and whose standing is determined in a manner similar to that followed in the awarding of the Gold Medal.

Third Year Prize in Books.—Awarded to the student obtaining the highest marks in written and practical subjects in the Third Year examinations.

The following prizes are given by the Mount Royal Dental Society:
First and Second Year Prizes.— A prize in books awarded to the student obtaining the highest standing at the sessional examinations.

SCHOLARSHIPS, BURSARIES, AND LOANS

Details of University and other scholarships and bursaries are given in the Scholarships Announcement which may be obtained from the Registrar's Office.

The University has a small loan fund from which loans may be made to students of good academic standing. Loans are made only to students in the upper years. Applications for loans should, in the first place, be made to the Dean.

COURSE FOR THE DEGREE OF D.D.S.

Acceleration of course as a war-time measure has been discontinued.

Candidates for the degree of D.D.S. must complete two years of study in a College or Faculty of Arts, with Physics, Inorganic and Organic Chemistry and Biology as compulsory subjects, before entering upon the four-year course in this Faculty. The curriculum is as follows:—

First Year

Anatomy (human)
Dental Anatomy
Histology, Medical and Dental
Physiology
Materials used in Dentistry
Metallurgy
Prosthetic Technique
Crown and Bridge Technique
Operative Technique
Orientation in Dentistry

Second Year

Crown and Bridge Work
Operative Technique
Orthodontia
Prosthetic Technique
Bacteriology
Biological Chemistry
Pharmacology (general and dental)
General Pathology
Dental History
Dental Ethics
Dental Jurisprudence

Third Year

Crown and Bridge Work
Dental Therapeutics
Operative Dentistry
Orthodontia
Prosthetic Dentistry
Dental Radiography
Prosthetic Articulation
General Anaesthesia
Oral Surgery
Local Anaesthesia
Oral Pathology
Root Canal Therapy
Health and Social Medicine

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*It should be understood that the programme and regulations regarding courses of study and examinations contained in this calendar hold good for this calendar year only, and that the Faculty, while fully sensible of its obligations towards the students, does not hold itself bound to adhere absolutely, for the whole four years of a student's course, to the conditions here laid down.

Fourth Year

Orthodontia
Prosthetic Dentistry
Oral Surgery
Crown and Bridge Work
Dentistry for Children
Oral Diagnosis
Medicine
Dental Office Management
Periodontia and Oral Hygiene
Practice Management

EXAMINATIONS

Frequent oral examinations are held to test the progress of the student, and occasional written examinations are given throughout the session.

A minimum of 60 per cent in each subject is required to pass, and 85 per cent for honours.

All examinations in each year must be passed before a student is allowed to advance to the next.

Candidates who fail at the regular examinations in not more than three subjects of the First, Second or Third Years, may, at the discretion of the Faculty, be allowed to take the supplementary examinations before the beginning of the following session. These examinations are held during the week preceding the regular opening of the session.

Failure in more than three subjects of the First, Second or Third Years at the regular examination excludes the candidate from advancement.

Students who fail in one subject only of the Final Year may, at the discretion of the Faculty, be allowed a supplementary examination in that subject. Should the subject be one in which practical or clinical work is required, the student must furnish a certificate of additional clinical attendance or laboratory work before presenting himself for examination.

Applications for supplemental examinations must be in the hands of the Dean at least three days before the date set for the beginning of the examination, and must be accompanied by a fee of $10.00 for each subject.

QUALIFICATIONS FOR THE DEGREE

1. No one is admitted to the degree of Doctor of Dental Surgery who has not attended lectures for a period of four sessions in the Dental Faculty of this University, or partly in this University and partly in some other approved university, college or school of dentistry.

2. Students of other universities, so approved, who may be admitted on production of certificates to a like standing in this University, are required to pass an oral examination in primary subjects, and all examinations in the final subjects in the same manner as students of this University.

No one is permitted to become a candidate for the degree who has not attended at least one full session at this University.

3. Candidates for the final examinations must furnish testimonials of attendance on the branches of dental education mentioned on page 1404; provided, however, that testimonials equivalent to, though not precisely the same as these, may be presented and accepted.

COURSES OF LECTURES

ANATOMY

Robert Reford Professor of Anatomy.....C. P. MARTIN
Assistant Professor of Anatomy.....D. S. FORSTER
Associate Professor of Histology.....C. P. LEBLOND
Lecturer in Dental Histology.....W. F. WALFORD
Demonstrator.....E. W. WORKMAN

ANATOMY

1A. GROSS ANATOMY

This course covers the first two terms of the year, and is planned so that after making a general survey of the whole body, the dental student concentrates his attention on the head and neck. The course runs concurrently with the course in First Year Medicine (Anatomy 1), and comprises five hours lectures and fifteen hours laboratory work a week during the Autumn and Winter terms.

MICROSCOPIC ANATOMY

1. HISTOLOGY AND EMBRYOLOGY

This course coincides for the main part with the Medical Microscopic Anatomy Course 5 but the reproductive organs are excluded and special lectures on dental histology and the embryology of the mouth are included. The course finishes at the end of the Winter term.

Laboratory Manual:—Grant, A Method of Anatomy.

Anatomy Text-book:—Gray, Anatomy, or Cunningham, Text-book of Anatomy.

Histology Text-book:—Bailey, Test-book of Histology, or Maximow and Bloom, Histology.

ORAL HISTOLOGY

Lecturer.....WALLACE F. WALFORD
Demonstrator.....ROBERT F. HARVEY

This course follows Histology 1. Tracing the development of the teeth and supporting structures, and following this introductory study, there is the study of the adult oral tissue throughout their life cycle, and their relationship to the various fields in Dentistry.

BACTERIOLOGY

Professors.....{E. G. D. Murray, Frederick Smith}
Assistant Professors.....{C. D. Kelly, D. S. Fleming, G. G. Kalz, J. W. Stevenson}
Lecturer.....{J. A. de Vries, G. D. Denton, D. S. Nunes}
Demonstrator.....M. J. Kahnke

All lectures and laboratory courses are given in the Department of Bacteriology (Institute of Pathology).

Elementary Dental Bacteriology and Immunity

30 Lectures and 60 hours Practical Work.—Available to Students of Dentistry on the completion of their studies in Anatomy, Physiology, Histology and Biological Chemistry.

A choice of one of the following books is recommended:—

T. J. Mackie & J. E. McCartney, Practical Bacteriology (Livingstone); Jordan & Burrows, Textbook of Bacteriology (Saunders), or others listed in the Announcements of the Faculties of Arts and Science, and Medicine.

PATHOLOGY

Professor.....G. Lyman Duff
Assistant Professor.....R. H. More
Lecturer.....M. B. MacKenzie

Required Courses

1. Course in General Pathology

A. Two lectures per week (with epidiascopic and microscopic demonstrations) during the Winter and Spring terms. (52 lectures)
Dr. Mackenzie

B. Two practical laboratory classes per week during the Spring Term. (80 hours practical work)
Dr. Mackenzie and Demonstrators

PHARMACOLOGY

Professor.....R. L. Stehle
Associate Professor.....K. I. Melville
Assistant Professor.....A. M. Fraser

A course of ten lectures concerned with those phases of pharmacology which are of importance in dentistry, supplemented by five laboratory periods of demonstrations.

Text-books: Cushny's, Sollman's or any other standard text.

PUBLIC HEALTH AND PREVENTIVE MEDICINE

Professor.....R. Percy Vivian

A special course of eight lectures on the relations of Dentistry with Public Health and Preventive Medicine.

MEDICINE

(Including General Medicine, Nutrition, Dermatology, Allergic Diseases and Paediatrics).

Professor of Medicine.....

Associate Professor of Paediatrics.....S. Graham Ross

Professor of Biochemistry.....D. L. Thomson

Professor of Bacteriology.....F. Smith

Clinical Professor of Dermatology.....L. P. Ereaux

Sessional Demonstrator in Medicine.....Cameron Stewart

This course is designed to give the dental student a general insight into medical conditions which are influenced, either directly or indirectly, by dental problems, as well as general diseases and other pathological processes which influence dentition and the condition of the teeth and gums.

The course consists of twenty-six lectures. It is not attempted to give the dental student the impression that he is getting a complete course in Medicine but rather to impress upon him when and how he can be of assistance to the individual in regard to general medical problems and, where the latter also requires his aid, in solving many problems.

Particular attention is paid to:

(1) Infectious and systemic diseases which may affect the mouth, have manifestations in the mouth, or where the condition of the mouth is important in the general course of the disease;

(2) The importance of diet and nutrition upon the general welfare of man, including food requirements, chemistry of nutrition, calorimetry, metabolism, the ductless glands and their influence on nutrition, etc.;

(3) The local manifestations of diseases of the skin as seen in the mouth and mucous membranes;

(4) The importance of proper dentition in the child, with particular emphasis being placed upon vitamins and congenital deficiencies.

BIOCHEMISTRY

Professor.....D. L. Thomson

Associate Professor.....R. D. H. Heard

Assistant Professors.....O. F. Denstedt, K. A. C. Elliott

This course is taken with the Medical Students.

Required Courses

1. Biochemistry—Lecture Course

Text-books:—Bodansky, Introduction to Physiological Chemistry (Wiley); Cameron, A Text book of Biochemistry (Macmillan); Williams, Text-book of Biochemistry (Van Nostrand).

Monday, Wednesday and Friday at 9.

2. Biochemistry—Laboratory Course

A synopsis of the course is issued by the Department.

Six hours a week: October to February.

ORAL PATHOLOGY

Assistant Professor.....A. Gerald Racey

Demonstrator.....Ralph S. Edmison

This course in Pathology is given in the Third Year.

It includes a study of the developmental defects and malformations of the teeth and special consideration is given to the study of the etiology, diagnosis and pathology of Dental Caries; diseases of the dental pulp; perioapical diseases; periodontal diseases; odontogenic cysts; and tumors which commonly occur in the oral cavity.

A study is also made of the oral manifestations of certain of the infective granulomata, as well as vitamin deficiencies and endocrine disturbances.

In the laboratory microscopic slides of many of these conditions are studied.

The course extends over the entire session, one hour per week during the first half year, and two hours per week during the second half.

Text-books:—Thoma: "Oral Diagnosis and Treatment Planning;" Kronfeld: "Histopathology of the Teeth and Their Surrounding Structures;" Thoma: "Clinical Pathology of the Jaws;" Bunting: "Oral Pathology."

ORAL DIAGNOSIS

Assistant Professor.....A. Gerald Racey

Demonstrator.....W. Hayden Bryant

This course is given in the final year.

It includes a consideration of the signs and symptoms of diseases of the hard structures of the teeth, the dental pulp, the peridental membrane and periapical tissues by means of Roentgenographic examination and clinical diagnosis tests. A study is also made of the signs and symptoms of disorders of the oral mucous membrane. Treatment planning in conjunction with the other dental teaching departments is given careful consideration.

The course extends over the entire year and is composed of lectures and practical instruction.

Text-books: Thoma: "Oral Diagnosis and Treatment Planning" (Saunders); Ziskin: "Differential Diagnosis of Mouth Diseases" (Kings Crown Press Division of Columbia University Press, New York).

PHYSIOLOGY

The Morley Drake Professor of Physiology and Chairman of the Department.....HEBBEL E. HOFF
Research Professor.....B. P. BABKIN
Associate Professor.....N. GIBLIN
Assistant Professor.....S. DWORKIN
Lecturers.....RONALD GRANT, KATHLEEN TERROUX
Demonstrator.....RHODA GRANT

The purpose of this course is to give the student an elementary knowledge of the whole subject of physiology with a more special knowledge of such aspects of the subject as bear particularly on the practice of dentistry.

GENERAL ANAESTHESIA

Lecturer.....C. C. STEWART

This course, given in the Third Year, comprises a short series of lectures on the general principles and the physiology of anaesthesia, with special emphasis laid on the factors of safety and the suitability of the anaesthetic agent employed. An equal amount of time is spent in the main operating theatre where demonstrations are given of the use of all modern methods of general anaesthesia for dental and oral surgery under actual working conditions.

Text-book: A. E. Guedel, "Inhalation Anaesthesia" (Macmillan).

DENTAL RADIOLOGY

Associate Professor.....W. L. RITCHIE

During the third year the course is commenced, so that students, on entering the final year, may be equipped to supply and improve their knowledge of the use and application of Roentgen Rays in the study of pathological changes, and in treatment. This course includes lectures on Roentgen Rays in Dental practice, as well as lantern slide instruction. Practical demonstrations in radiographic and dark room technique is carried out at the Clinic during the third and fourth years, when constant assistance is available.

ORAL SURGERY

Professor and Dean of the Faculty . . . . . ARTHUR L. WALSH

Associate Professor and Chairman of the Department . . . . . JOHN W. GERRIE

Assistant Professor in Charge of Exodontia . . . . . ROGER E. MCMAHON

Assistant Professor of Oral Pathology . . . A. GERALD RACEY

Lecturers . . . . . ———

Demonstrators . . . . . D. H. MUHLSTOCK, A. E. PYE

The course, given during the Junior and final years, is designed to make the student proficient in the arts of local anaesthesia and exodontia and to familiarize him with the principles of general surgery and the details of oral surgery including malignant disease.

Although work in the department is largely clinical, forty-five lectures are given to provide a didactic groundwork. The Dental Clinic, established in the Montreal General Hospital almost 30 years ago, treats over twenty thousand patients yearly and also supplies the necessary dental treatment for patients resident in the hospital. The patients in the medical and surgical services, both indoor and out-patients, are available for teaching. In addition students attend in groups at the Tumour Clinic where a large series of malignant conditions are demonstrated. Clinical lectures are given in the operating theatres, and ward rounds are conducted in the wards where mouth conditions of interest to dental students are shown.

The larger part of the lecture work is given before Christmas in the Junior Year after which the student is introduced to the Exodontia Clinic at the Hospital. Here he is given demonstration by Dean Walsh and Dr. McMahon and is required to follow the exodontia practice of the senior students.

The Senior Year is primarily clinical when the didactic work of the Third Year is enlarged upon. Students practice in the exodontia clinic daily under the direction of Dr. McMahon and his Demonstrators and are assisted after Christmas by a Junior student. The class attends Oral Surgery Clinics and Ward Rounds with Dr. Gerrie once a week when histories are taken and patient examined. Oral Surgery clinics are held twice weekly by Doctors McMahon and Racey when the more advanced mouth procedures are carried out. Attendance at these is not compulsory but interesting cases are demonstrated.

Text and Reference Books: Blair and Ivy—Essentials of Oral Surgery; Berger—Principles and Technique of the Removal of Teeth; Ive and Curtis—Fractures of the Jaws; Winter—Operative Oral Surgery; Parker—Traumatic Injuries of the Face and Jaws; Padgett—Surgical Diseases of the Mouth and Jaws; Thoma—Traumatic Surgery of the Jaws; Thoma—Oral Pathology; Burket—Oral Medicine; Fry, Shepherd, McLeod and Parfitt—Dental Treatment of Maxillo-Facial Injuries.

DENTAL PHARMACOLOGY THERAPEUTICS AND ENDODONTIA

Lecturer.....WILFRED J. JOHNSTON

Demonstrators.....{A. D. RICHARDSON
L. J. ROSEN

DENTAL PHARMACOLOGY AND THERAPEUTICS

A course for second year students, intended to provide a study of those drugs not covered in the General Pharmacology course and which are of particular interest in the treatment of pathological conditions of the oral cavity.

Text-books: Prinz, Rickert and Dobbs: Dental Materia Medica and Therpateutics. Accepted Dental Remedies.

ENDODONTIA

A course in root canal therapy correlated with the teachings of the departments of Bacteriology, Pathology, Histology and Dental Anatomy. The principles of opening, cleansing and filling root canals are dealt with. Each student is required to carry out the diagnosis, bacteriological examination, treatment and root resection, if necessary, of at least one clinical case.

DENTAL HISTORY AND ETHICS

Lecturers.....{EARL M. LAURIN
J. NEILSON BLACKLOCK

HISTORY

This course is intended to give the student an intelligent conception of the evolution and development of dentistry from the primitive conditions and methods of the past to the present standing of the profession as a branch of the healing art. The relation of some of the outstanding men of the profession to this development will also be dealt with.

ETHICS

Under this head the moral, social and business relationships between the dentist and his patient will be discussed, as well as his duty to the public, his fellow practitioner, and himself.

OFFICE PROCEDURE and BUSINESS MANAGEMENT

Lecturer.....R. B. BELL

This course is given to the Fourth Year and consists of fifteen lectures.

The lecture course covers:—

1. Preliminary consideration of a dentist opening practice.
2. Professional costs and business aspects of a dental practice.
3. Value and costs of dental service.
4. Determination of operating costs.
5. How minimum fees are computed.
6. Office records.

7. Procedure with patients.
8. What can be expected of a dental assistant.
9. A dentist's day.
10. Hints and suggestions.

DENTAL JURISPRUDENCE

Lecturer.....W. Austin Johnson

A discussion of the laws governing the practice of Dentistry, their necessity and purpose.

The responsibility of the dentist under the laws of the Province, his position as defendant in suits for damages and as plaintiff in suits for fees, are fully explained.

METALLURGY

Associate Professor.....Gordon St. George Sproule

This course is given to Dental students of the Second Year by the Metallurgical Department of the University.

It consists of twelve lectures of one hour, and twelve laboratory periods of two and a half hours, each.

The lecture course covers:

(1) Introductory lectures on the physical and chemical properties of metals, especially in relation to their use in Dentistry.

(2) Methods of melting, casting and alloying metals in the laboratory.

(3) Methods of extracting metals from their ores.

(4) The nature and preparation of alloys, including amalgams.

(5) The metals used in Dentistry (lead, zinc, tin, bismuth, cadmium, antimony, aluminum, copper, silver, gold, platinum, iridium, mercury, iron and steel) are considered separately in regard to their properties, uses in dentistry, and, as far as time allows, extraction from their ores. The separation, purification and alloying of gold, silver and platinum are specially considered.

(6) The manufacture, properties and uses of dental amalgams.

Text-book:—J. D. Hodgen, Practical Dental Metallurgy.

The laboratory course includes experimental work with the metals: gold, silver, copper, lead, zinc, tin, aluminum, nickel, iron and steel.

The metals are melted, alloyed, cast, hammered, filed, cut, rolled, annealed and tested with acids and other chemicals.

The preparation of pure gold and silver is carried out and the production and testing of dental and other amalgams.

The course is given during the first term of each session by Professor Sproule.

OPERATIVE DENTISTRY

Professor.....D. P. Mowry

Associate Professor.....W. G. Leahy

Lecturer.....C. H. P. Moore

Lecturer in Periodontia.....W. F. Walford

Lecturer in Dental Anatomy.....R. B. Bell

Demonstrators in Periodontia.....P. G. Gitnick, R. F. Harvey

Demonstrator in Dental Anatomy.....T. I. Guilboard

Demonstrators in Operative Dentistry...P. H. Rowe, C. R. Seller, E. T. Cleveland, F. A. Edward, A. W. Adams, J. W. Morton, R. T. Murray, R. T. Lamb, H. T. Oliver, J. E. Van Vliet, F. L. Burns, W. H. Boyles, E. S. Dorion, G. K. Hale, L. Epstein, C. Asselin

The purpose of this course is to instruct and train the student in the treatment of all diseases of and injuries to the hard tissues of the teeth. Especial attention will be given to children's dentistry with the aim that operative procedures will have for their object the inhibition of pathologic process and the restoration of the anatomy of the tooth in relation to function.

Lectures on theory and practical experience at the Dental Clinic will stress the coordination of Dental Hygiene, Orthodontia, Operative Dentistry, Periodontia, Endodontia and Prosthetic Dentistry to the end that the student will graduate with knowledge and ability to treat patients at all ages and conditions of life.

Text-books:—G. V. Black, 2 Vols. (Medico-Dental Co., Chicago); O. McGehee; McBride-Juvenile Dentistry.

Periodontia

Arrangement is made for co-ordination of the theoretical study, practical instruction and clinical practice in the treatment of pathological conditions to be found in the periodontal tissues. The physiological and histological structure in relation to function is made a basis for the study and treatment of the periodontal tissues.

Text-books:—Orban, Dental Histology and Embryology; Kronfeld, Histopathology of the Teeth and Their Surrounding Structures. S. C. Miller (new issue 1938); Biology and Pathology of the Teeth and its Supporting Mechanism—Gottlieb (1939).

DENTISTRY FOR CHILDREN

Lecturer.....CAMERON T. WALSH

A course commencing this October introducing child management, treatment planning, and operative procedures, which will be presented to fourth year.

DENTAL ANATOMY

Lecturer.....R. B. BELL

Demonstrator.....T. I. GUILBOARD

This course is given to Dental Students of the first year. It consists of 28 lectures of one hour, and 56 laboratory periods of two hours each.

The lecture course covers:—

1. Introductory lectures in development of the maxillary bones, development of teeth, nomenclature of the different constituents of teeth, and surrounding tissues.

2. The anatomy of each individual tooth in both jaws, deciduous and permanent.

3. Arrangement of teeth and occlusion.

4. Development of the Maxillary apparatus from reptiles to man.

These lectures are accomplished with the aid of drawings, X-Rays, models and slides and specimens.

Text-books: G. V. Black and M. Diamond.

Laboratory course includes the drawing of each individual tooth from the three different aspects. Carving of each tooth natural size, which are then articulated anatomically. Different sections of extracted teeth are made to familiarize the student with the relationship of the different constituents of the teeth at various ages.

Text-books: G. V. Black, 2 Vols. (Medico-Dental Co., Chicago); C. N. Johnson (Blakiston); M. E. Jordan, Dental Items of Interest; W. H. O. McGehee, Test-book of Operative Dentistry (Blakiston).

Reference for Periodontia: Stilman & McCall, Clinical Periodontia (Macmillan, New York).

ORTHODONTIA

Professor.....A. W. McClelland
Assistant Professor.....Gerald Franklin
Lecturer.....M. L. Donigan
Demonstrators.....A. R. Winn, Kenneth M. Walley

The course in orthodontia is designed to give the student a knowledge of the basic principles underlying the development of malocclusion, its prevention and treatment. In order to correlate the lectures with their clinical application, considerable time is given to technique and treatment of patients.

First Year

In this year the student is taught the basic sciences of histology and embryology of the dental organs; this covers growth, eruption and development of the teeth.

Second Year

The purpose of the work in this year is to give the student a thorough course in basic fundamental technique. Various soldering exercises are completed by the free hand method, certain plaster exercises are also completed, and the students are required to take plaster impressions and make finished models of the individual.

Third Year

In the third year, the course includes further technique lectures and clinical observation. Advanced appliance construction on typodonts and plaster work comprises the technique phase. Ten lectures are given covering terminology, occlusion and classification of malocclusion as a basis on which the student may proceed to the more difficult problems. Following the lectures, group clinics are given, at which patients are examined, simple cases diagnosed, etc. In addition, throughout the year, each third year student is in regular attendance at the orthodontic clinic in the Montreal General Hospital and is associated with a senior student who is carrying on the treatment of cases. The junior student acts as observer only and does not participate in the clinical treatment.

Fourth Year

In the final year a full course of lectures is given. These cover etiology, diagnosis and preventive orthodontia. Pertinent histology is reviewed with special emphasis on tissue changes incident to tooth movement amplified by a study of selected slides under the microscope in the laboratory. In the orthodontia clinic cases are assigned to each student which he treats under strict supervision. The student constructs the appliances suitable to the case at hand.

The appliances are designed by the staff and constructed of precious metals. Each student is not only responsible for the cases assigned to him but is required to familiarize himself with all other cases under treatment in the clinic.

Text-books: Recommended are: Dewey, Brash, Angle, McCoy.

PROSTHETIC DENTISTRY

Professor ..... W. C. BUSHELL

Assistant Professors ..... P. R. MARCHAND, R. E. DAGG

Lecturer ..... D. W. HENRY

Demonstrators ..... D. C. GORDON, W. G. STOCKWELL, F. O. FREDERICK, A. F. CAMERON, W. J. W. HODGINS, J. M. CHAMARD, M. A. ROGERS, M. REUTCKY, J. FINEBERG, I. M. SLOANE, C. H. DUNDASS, P. A. OSTAPOVITCH, ARTHUR KALFAS

This course covers the teaching of mouth reconstruction in its fullest sense. It includes the examinations, diagnosis and treatment of cases, the preparation of the mouth and teeth, impressions, the technique of constructing various types of crowns, fixed and removable partial dentures, full dentures, and the construction of appliances for the treatment of cleft palate cases.

For convenience in teaching, the course is divided into four parts, namely: Full Dentures, Removable Partial Dentures, Fixed Partial Dentures, Ceramics. The course extends throughout the four years. During the first two years students are given a throrough training in the various techniques on models, etc. The final two years are clinical years and are devoted to lectures at the University, and practical work at the Montreal General Hospital. During these years students are required to complete a certain number of the various restorations in the mouths of patients under the supervision of demonstrators.

Text-books:—Partial Dentures by Edward Kennedy (Dental Items of Interest). Partial Dentures by F. G. Neurohr, (Lea & Febiger); Complete Denture Prosthesis by Schlosse (Saunders), Gillet & Irving, Inlays by the Indirect System (Dental Items of Interest); Schwartz, Cavity Preparation (Dental Items of Interest); Le Gro, Ceramics in Dentistry (Dental Items of Interest); Felcher, Art of Porcelain in Dentistry; Stanley D. Tylman, Crown and Bridge Prosthesis.

CLINIC

Students are required to attend the clinic every day during the Third and Fourth Years from nine to twelve o'clock and from one-thirty to five o'clock, except during such part of the time as may be taken up with lectures or other work of the University course. The practical dental work is supervised by the Director of the clinic and his associates. Anaesthetics are administered by members of the resident staff of the Hospital, who give practical instruction in this most important branch. A nurse is also in attendance during clinic hours. Following final examinations in May to end of June students entering third and fourth years are expected to spend this time doing clinical dentistry.

LIBRARY

In conjunction with the Medical Library, which contains all the standard text-books in the branches of the first two years in Dentistry, there is a section dealing exclusively with dental subjects. Students may consult any work of reference in the Library between 9 a.m. and 9 p.m. during the session; Saturdays, 9 a.m. to 5 p.m.

MUSEUM

In connection with the Pathological Museum of the Medical Faculty there is a very good collection of plaster casts of deformities of the jaw, etc., and also a very large collection of teeth of all varieties.

McGILL UNIVERSITY

MONTREAL

FACULTY OF LAW

1947-1948

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McGILL UNIVERSITY

FACULTY OF LAW

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L., LL.D., Docteur de l'Université (Montreal).

Dean of the Faculty of Law.....Charles Stuart LeMesurier, K.C., B.A., B.C.L.

Comptroller and Executive Assistant to the Principal.....S. H. Dobell, D.S.O.

Bursar.....William Bentley, C.G.A.

Registrar.....T. H. Matthews, M.A.

Secretary of the Faculty of Law....Maxwell Cohen, B.A., LL.M.

A complete list of the teaching staff of the University, including the Faculty of Law, is printed as a separate announcement which may be obtained from the Registrar's Office.

GENERAL INFORMATION

COURSE OF STUDY

The Faculty offers a three year course leading to the degree of B.C.L. Students intending to practise law in Quebec must take an additional year of practical training and pass further examinations set by the Bar and the University. The course provides a liberal education in legal principles and theory, and prepares students not only for the legal and notarial professions, but for public service and business. In the field of private law, the curriculum is based on the Civil and Roman systems, from which the Quebec Civil Code is derived; in the field of public law, stress is laid on International and Administrative law, and on the new institutions and procedures resulting from the increased role of government in the modern state.

ADMISSION

Students who have successfully completed two years in the Faculty of Arts and Science at McGill University will be admitted to the Faculty of Law without further examination. Other candidates for admission will

have to satisfy the Faculty that they have attained an equivalent educational standard, and are intellectually qualified to pursue with advantage the study of law.

Students whose right to enter the Third Year of the Arts and Science Faculty is conditional upon their passing supplemental examinations are not eligible for admission to the Faculty of Law.

Women are admitted to the Faculty on the same terms as men, and are eligible for the degree. As the law stands at present, however, they can be admitted to the legal but not to the notarial profession in the Province of Quebec.

The Faculty may admit a limited number of suitable persons to attend selected courses of lectures without matriculation in the University. Such permission will only be granted to applicants who satisfy the Faculty of their capacity to undertake with advantage the study of law. They will not be allowed to proceed to a degree, but will be entitled to receive a certificate specifying the course of study which they have successfully pursued and the class which they have obtained in the examination.

Candidates for admission are required to interview the Dean or the Secretary of the Faculty and to obtain permission to register.

Students intending to practise as lawyers or notaries in the Province of Quebec are referred to the information on page 1512 regarding admission to the legal professions.

FRENCH

The attention of students is directed to the necessity of being able to read French easily, as many of the works to which they will be referred are in that language.

REGISTRATION

All students must register in person at the office of the University Registrar between Monday, September 29th, and Tuesday, September 30th.

Students registering later than the prescribed dates will be required to pay a late registration fee of $5 during the first week of the session and $10 during the second. This will not be refunded, except by special permission of the Faculty.

Students must bring with them at the time of registration the evidence necessary to show that they are entitled to admission into the Faculty, if this has not already been furnished.

Fees

The regular fees and special fees are given in the General Information Pamphlet included with this Announcement.

Dates for Payment

Fees are due and payable at the Bursar's Office between Monday, September 29th and Tuesday, September 30th, but they may be paid before these dates. The second instalment is due and payable on February 1st. An additional $2 is charged for payment after the specified dates.

Students registering late must pay their fees when they register, failing which they become subject to the provisions of the above paragraph.

Immediately after the prescribed dates for the payment of fees a list of the registered students who have not paid their fees is sent to the Dean of the Faculty, who removes their names from the register of attendance. Such students are not readmitted to any class until instructions have been received from the Bursar that the fees have been paid.

PRIZES, SCHOLARSHIPS, AND MEDALS

The *Elizabeth Torrance Gold Medal*, founded in 1864 by Professor John Torrance in memory of his wife, is awarded to the student who obtains the highest marks in the Final Examination.

The *Montreal Bar Association* offers a prize of $50 to the student who obtains the highest standing in Commercial Law, and the Junior Bar Association a prize of $15 to the student who obtains the best marks in Civil Procedure in the Final Year.

The *Alexander Morris Exhibition*, of the value of $50, founded in memory of the late Hon. Alexander Morris, M.A., D.C.L., of Toronto, will be awarded to the student who obtains the highest standing in the Second Year.

The *Robert Alfred Ernest Greenshields Prize in Criminal Law*, founded in 1943 by Mrs. Greenshields in memory of her husband, the late Chief Justice Greenshields, D.C.L., LL.D., for many years Professor of Criminal Law and Dean of the Law Faculty. The prize will be awarded to the member of the graduating class having the highest standing in Criminal Law throughout the college course.

The *Adolphe Mailhiot Prize*, established by Mr. and Mrs. J. N. Mailhiot of Victoriaville, P.Q., in 1927, consists of a prize of law books to be given annually to a student selected by the Faculty, usually, but not necessarily, in the graduating class.

The *Macdonald Travelling Scholarship* was founded by the will of the late Sir William Macdonald "for the purpose of enabling English-speaking Law students to take a course of studies in France," the testator "deeming it of great importance that the English-speaking members of the legal profession should be proficient in the French language." The value of the scholarship is approximately $1,000. The scholar elected is required to pursue a year's study in the Law Faculty of a French University approved, in each case, by the McGill Faculty of Law. The award is made at the discretion of the Faculty to a student of the graduating class, not being a notarial student, who has obtained first or second class honours in the Final Examination, and who would be unable without such financial help to spend a year in France. The Faculty interprets the will of the late Sir William Macdonald as intending that the Scholarship be awarded only to students preparing for practice as advocates in the Province of Quebec.

The *Edwin Botsford Busteed Scholarship* was founded by the will of the late Mrs. Edwin Botsford Busteed in memory of her husband, Edwin Botsford Busteed, K.C., B.A., B.C.L., and will be awarded to a student, chosen by the Faculty, in the graduating year who desires to carry out research after graduation on some subject connected with the law of Quebec and approved by the Faculty. The value of the scholarship is approximately $240, which will be paid to the scholar when his thesis has been accepted by the Faculty.

The *Thomas Alexander Rowat Scholarship* was founded by Mr. Donald McKenzie Rowat, N.P., in memory of his brother, Lieutenant Thomas Alexander Rowat, B.C.L., who was killed in action at Lens, France, on the 28th June, 1917. The value of the scholarship is approximately $75. It is awarded in alternate years for proficiency in the French language and in the old French law. Candidates must be British subjects of Anglo-Saxon or Celtic origin. The next award of this scholarship will be in the session 1947-48.

The *Charles Albert Nutting Prize* was founded in 1930 by Miss Adelaide Nutting, M.A., R.N., in memory of her brother, Charles Albert Nutting, K.C., B.C.L., who graduated from this Faculty in 1872. The value of the prize is approximately $40. It is awarded to the student in the first or second year submitting the best essay on a topic related to legal history, the topic to be fixed in advance by the Faculty.

Students in the Faculty are eligible for *University Scholarships*. For particulars see the Scholarships Announcement.

No medals, prizes or scholarships will be awarded, if, in the opinion of the Faculty, there is no candidate of sufficient merit.

SCHOLARSHIPS ANNOUNCEMENT

A complete list of scholarships and bursaries and the regulations governing the various loan funds are given in the Announcement of Scholarships, Bursaries, and Loan Funds which may be obtained from the Registrar's Office.

DEGREES

B.C.L.

The degree granted in the Faculty is that of Bachelor of Civil Law The course covers three years.

No student under the age of 21 years will be eligible for a degree.

M.C.L.

The degree of Master of Civil Law is granted under the authority of the Faculty of Graduate Studies and Research for advanced study in legal subjects. The candidate must have the degree of B.C.L. from McGill or its equivalent, and must have obtained at least second class honours in the subject which he proposes to study and in the course as a whole. He must spend at least one year in resident study and present a thesis on some topic connected with his subject. The complete regulations governing this degree are given in the Announcement of the Faculty of Graduate Studies and Research.

D.C.L.

The degree of Doctor of Civil Law is granted under the authority of the Faculty of Graduate Studies and Research. The regulations governing this degree are given in the Announcement of that Faculty.

LIBRARY

The Law Library of the University at present contains over 20,000 volumes, and immediately adjoins the lecture rooms. The principal reports of Canada, the United Kingdom, and France are included, as well as a selection of reports from the United States and elsewhere.

There is a small lending library, from which students can obtain text-books for the session on payment of an *ad valorem* fee.

The general Library of the University is also available for the use of Law students.

EXAMINATIONS

*Examinations will be held:—

(a) At the end of the first session, covering the year's work, the final examinations in Roman Law and International Law being held at this time.

(b) At the end of the second session, covering the second year's work, the final examinations in Constitutional Law and Criminal Law and Procedure being held at this time.

(c) At the end of the course, on the work of the three years, except Roman Law, Constitutional Law, International Law and Criminal Law. The results obtained in the final examinations in these subjects are included in the Third Year total.

Special tests may be required by the Faculty at any time.

At all examinations in the Faculty students are at liberty to write their answers either in English or in Franch.

CLASSIFICATION OF MARKS

Class I	80–100%
Class II	70– 79%
Class III	50– 69%

In order to pass a student must have an average of 60%.

*These requirements are subject to alteration by the Faculty, of which notice will be given.

SUPPLEMENTAL EXAMINATIONS

(a) Students are not, in principle, allowed the privilege of writing supplemental examinations except in the case of illness and other analogous cases. In the first year, however, one supplemental examination may be allowed, provided the candidate had an aggregate of sixty percent in the regular examinations, if, in the opinion of Faculty, the candidate can proceed to the second year with advantage.

(b) All applications for supplemental examinations must be made to the Dean in writing and must reach his office before September 1st.

(c) The prescribed fees must accompany the written application and are payable to McGill University. Fees for supplemental examinations will be ten dollars for each paper, with a maximum charge of fifty dollars. If the third year essay is not accepted, in addition to the foregoing, a charge of ten dollars for reading the revised essay will be made.

GRADUATING ESSAY

In addition to passing examinations students must submit, not later than the 31st of January of their graduating year, a thesis of not less than ten thousand words on a subject set by the Faculty. Although no marks are assigned to the thesis, no degree will be granted unless it is adjudged satisfactory. It will be taken into account in awarding honours and prizes of a general nature, such as the Elizabeth Torrance Gold Medal and the Macdonald Travelling Scholarship, and in deciding upon doubtful cases.

CURRICULUM*

FIRST YEAR

Roman Law

Three hours throughout the session. Mr. George Owen

Civil Law

(a) Persons and Property.
Two hours throughout the session. Professor C. S. Le Mesurier

(b) Obligations.
Two hours throughout the session. Professor Louis Baudouin

Criminal Law

Two hours throughout the session. Professor C. S. Le Mesurier

International Law and Organization

Two hours throughout the session. Professor Maxwell Cohen

Constitutional Law

One hour throughout the session. Professor F. R. Scott

SECOND YEAR

Civil Law

(a) Sale, Lease and Hire, Mandate, Partnership, and minor contracts.
One hour, first term.
Two hours, second term. Professor Louis Baudouin

(b) Marriage Covenants, Successions, Gifts, Wills, Substitutions, and Trusts.
Two hours, first term.
One hour, second term. Professor Louis Baudouin

(c) Privileges, Hypothecs, Registration, and Prescription.
Two hours, first term. Professor C. S. Le Mesurier
One hour, second term.

(d) Legal History.
One hour, second term. Professor Louis Beaudoin

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*This curriculum may be revised in the session 1947-48 to meet new Bar requirements.

Civil Procedure

Two hours, first term. Mr. A. N. Watt
Two hours, second term. Mr. J. P. Anglin

Constitutional Law

Two hours throughout the session. Professor F. R. Scott

Criminal Procedure and Evidence

Two hours, one term.
One hour, the other term. Mr. Gerald Fauteux

Insurance Law

(b) Introduction to the Study of Commercial Law and Insurance.
One hour throughout the session. Mr. J. L. O'Brien

THIRD YEAR

Commercial and Maritime Law

(a) Company Law and Bankruptcy.
One hour throughout the session. Professor A. S. Bruneau

(b) Negotiable Instruments.
Two hours, first term. Professor Maxwell Cohen

(c) Maritime Law and Carriers.
One hour, second term. Professor Maxwell Cohen

Civil Procedure and Evidence

Two hours, first term. Mr. J. P. Anglin
Three hours, second term. Mr. A. N. Watt

Conflict of Laws

One hour throughout the session. Professor C. S. Le Mesurier

Industrial Law

One hour throughout the session. Professor F. R. Scott

Administrative Law

Two hours throughout the session. Professor F. R. Scott

Taxation Law

One hour throughout the session. Mr. Claude Richardson

ADMISSION TO THE LEGAL PROFESSIONS IN QUEBEC

Candidates proceeding to the Quebec Bar must be British subjects, hold the degree of B.A. from a Canadian or British university, and satisfy the Bar Examiners that they have successfully completed "the regular course in philosophy" in an approved university. The latter course may be taken concurrently with the law course.

Candidates for admission to the Notarial profession must also be British subjects and hold the degree of B.A., B.Litt., or B.Sc. from a Canadian, English, or French university.

Further information regarding admission to the Bar can be obtained by applying to Mr. Charles Coderre, K.C., Room 15, Old Court House, Montreal, or by consulting the Bar Act, 1941, R.S.Q. chap. 262 (as amended). Information regarding admission to the Notarial profession can be obtained by applying to Mr. Arthur Courtois, Room 320, New Court House, Montreal, or by consulting the Notarial Code, 1941, R.S.Q., chap. 263 (as amended).

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McGILL UNIVERSITY

VISITOR

His Excellency the Governor-General of Canada

CHANCELLOR

Hon. Orville Sievwright Tyndale, M.A., B.C.L.

PRINCIPAL AND VICE-CHANCELLOR

F. Cyril James, Ph.D., D.C.L., LL.D.

DEAN OF THE FACULTY OF MUSIC AND DIRECTOR OF THE CONSERVATORIUM

Douglas Clarke, M.A., Mus.B., F.R.C.M., F.R.C.O.

COMPTROLLER AND EXECUTIVE ASSISTANT TO THE PRINCIPAL

S. H. Dobell, D.S.O.

BURSAR

William Bentley, C.G.A.

REGISTRAR

T. H. Matthews, M.A.

VICE-DIRECTOR AND SECRETARY OF THE CONSERVATORIUM OF MUSIC

R. de H. Tupper

Address—677 Sherbrooke St. W., Montreal 2

All communications should be addressed to the Secretary of the Conservatorium, as shown above.

STAFF OF THE CONSERVATORIUM

DIRECTOR:—MR. DOUGLAS CLARKE, M.A., MUS.B., F.R.C.M., F.R.C.O.
VICE-DIRECTOR:—MR. R. DE H. TUPPER

PIANOFORTE

MR. BERNARD SYMONS, A.R.A.M.
MR. HUGH MCEACHRAN, L.MUS.
MR. HELMUT BLUME
DR. FRANK HANSON
MR. SEVERIN MOISSE
MR. KENNETH MEEK, L.MUS., MUS.B.
MR. J. B. SPEIRS, L.R.A.M., A.R.C.M.
MISS EDITH JOHNSON
MRS. E. EAGER ROSS, L.MUS.

JUNIOR PIANOFORTE DEPARTMENT

MISS GITA MILLER, L.MUS.

ORGAN

MR. KENNETH MEEK, L.MUS., MUS.B.
MR. PHILLIPS MOTLEY B.A., MUS.B.

SINGING

MISS JEAN L. MILLAR

SIGHT SINGING AND PART SINGING

CHORAL STUDY AND APPRECIATION CLASS

THE DIRECTOR

ELEMENTARY AND HIGHER THEORY

THE DIRECTOR
DR. FRANK HANSON,
MISS VIOLET ARCHER, MUS.B.
MR. CLAUDE CHAMPAGNE
MR. KENNETH MEEK, L.MUS., MUS.B.
MISS E. SCHWOB, A.MUS.

HISTORY, AESTHETICS, FORM AND ANALYSIS, AURAL TRAINING AND MUSICAL DICTATION

THE DIRECTOR
MR. MARVIN DUCHOW, B.A., MUS.B.

SCHOOL MUSIC
Dr. Frank Hanson

SCHOOL CLASS TEACHERS' TRAINING COURSE
Dr. Frank Hanson

TEACHERS' METHODS AND MATERIALS
Dr. Frank Hanson

HARMONY AND COUNTERPOINT
The Director
Mr. Claude Champagne Miss Violet Archer, Mus.B.
Dr. Frank Hanson

COMPOSITION AND ORCHESTRATION
The Director Mr. Claude Champagne

VIOLIN AND VIOLA
Mr. Alexander Brott, L.Mus. Mr. Stephen Kondaks
Madame J. R. Gilbert

VIOLONCELLO
Mr. Raoul Duquette Mr. Jean Belland
Miss Yvette Lamontagne

DOUBLE BASS
Mrs. G. Probyn

FLUTE
Mr. H. E. Baillargeon

OBOE
Mr. Real Gagnier Mr. R. Luckett

CLARINET
Mr. J. Moretti

BASSOON
Mr. R. de H. Tupper

FRENCH HORN
Mr. J. E. MacDonald

TRUMPET
Mr. G. E. Jones

TROMBONE
Mr. J. E. Bell

TYMPANI AND PERCUSSION
Mr. L. Decair

HARP
Mrs. J. Drouin-Adkins

CONSERVATORIUM ORCHESTRA
The Director

CONDUCTING CLASS
The Director Mr. R. de H. Tupper

CHAMBER MUSIC AND INSTRUMENTAL ENSEMBLE
The Director

CHAMBER AND ORCHESTRAL MUSIC
REPERTORY AND OPERA
The Director Mr. R. de H. Tupper

DALCROZE EURYTHMICS
Mlle. Genevieve Bugnion

MODERN LANGUAGES (ITALIAN, FRENCH, GERMAN AND SPANISH)

By arrangement with the Romance and Germanic Languages Departments of the University, students in Music have special facilities afforded them for studying these languages.

ACOUSTICS
The Director Mr. E. D. Timmerman, B.Sc., A.C.I.C.

EXTRA-MURAL COURSES

Pianoforte classes are held in various schools throughout the City and vicinity. Information with regard to these can be obtained from the Secretary of the Conservatorium, who can also furnish the names of teachers in the City who prepare pupils privately for the McGill Local Centre examinations.

PHYSICAL TRAINING
Dr. A. S. Lamb, B.P.E. Miss Iveagh Munroe, M.S.P.E., B.Sc., M.A.

(See Conservatorium Regulations, page 1616.)

HOUR	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
9-10						Elementary Grade Theory Senior Grade Theory
10-11		2nd Mus. B. Counterpoint and Fugue	3rd Mus. B. Form and Analysis			Junior Grade Theory Intermediate Grade Theory
11-12			3rd Mus. B. History		3rd Mus. B. Counterpoint and Fugue	School Music—2— Elementary— Junior Grade Theory Highest Gr. Theory
12-1	1st Mus. B. Harmony	Composition	2nd Mus. B. Harmony 3rd Mus. B. History	Score Reading	3rd Mus. B. Harmony	School Music—1—
1-2						
2-3	1st Mus. B. History	Orchestral Repertory —1—	1st Mus. B. Form and Analysis Orchestral Repertory —2—		Conducting Class	
3-4	2nd Mus. B. History	1st Mus. B. Form and Analysis	2nd Mus. B. Form and Analysis		Senior Grade Theory	
4-5	Elementary Grade Theory Highest Grade History	Highest Grade Form and Analysis	Junior Grade Theory	Aural Training—1—	Intermediate Grade Theory	
5-6	Aural Training—2				School Music	
6-7						
7-8			Part Singing Conducting School Teachers	Acoustics General Theory Class		
8-9	Conservatorium Orchestra (2 hrs)		Teachers Methods and Materials Class			

CALENDAR FOR 1947-48

1947

Mon.,	Sept.	15th	First day of session. Teaching begins in all branches of Practical Music.
Mon.,	Sept.	29th	Lectures in Sight Singing, Theory, Harmony, Counterpoint, History, Form and Analysis, Canon and Fugue, Transposition and Orchestration begin.
Mon.	Oct.	6th	Founder's Day. (James McGill born Oct. 6th, 1744, died Dec. 19th, 1813.)
Mon.,	Oct.	6th	Convocation.
Fri.,	Oct.	17th	
		8 p.m.	Presentation at the Royal Victoria College of Diplomas of Associateship and certificates gained in the examinations at the end of last session.
Tues.,	Nov.	11th	Remembrance Day.
Sat.,	Dec.	20th	All lesson and classes end until after the Christmas vacation.

1948

Mon.,	Jan.	5th	All lessons and classes resumed.
Wed.,	Feb.	4th	First Students' Recital in Conservatorium Hall.
Fri.,	Feb.	13th	First Junior Students' Recital in Conservatorium Hall.
Wed.,	Mar.	10th	Second Students' Recital in Conservatorium Hall.
Fri.,	Mar.	19th	Second Junior Students' Recital in Conservatorium Hall.
Thurs.,	April	1st	Last day for examination entries.
Fri.,	Mar.	26th	Easter Vacation.
Mon., (inclusive)	Mar.	29th	
Fri.,	April	30th	Examinations in Theory begin (see page 1644).

Mon.,	May	3rd	Practical Examinations begin at the Conservatorium.
Tues.,	May	4th	Examinations in Higher Theoretical Music begin.
Sat.,	May	8th	Last day of Lectures.
Wed.,	May	26th	Convocation
Sat.,	June	5th	Last day of lessons. Conservatorium closes.

FACTS OF HISTORICAL INTEREST

1904, September 21st	First day of teaching at the McGill University Conservatorium of Music. (Dr. C. A. E. Harris, Director.)
1904, October 14th	Conservatorium formally opened by Their Excellencies, Lord and Lady Minto, First Recital.
1908, October	Dr. Harry Crane Perrin takes up his duties as Director of the Conservatorium and first Professor of Music in McGill University.
1909, February 23rd	First Orchestral Concert.
1910, February 17th	First Choral Concert.
1910, April, May, June	First Local Centre examination throughout the Dominion.
1910, June 9th	First Mus. B. Degree conferred.
1911, May 12th	First Mus. D. Degree conferred.
1917	Conservatorium endowed by Sir William Macdonald.
1918, May 1st	Resignation (owing to illness) of Sir William Peterson, K.C.M.G., as Principal of the University.
1920, April 26th	The Governors of the University constituted a Faculty of Music with Dr. Perrin as Dean of the Faculty.
1920	General Sir Arthur Currie, G.C.M.G., K.C.B., appointed Principal of the University.
1921	Two Music Scholarships founded as a memorial to the late Sir William Peterson.
1922	Two Music Scholarships founded as a memorial to the late Sir William Macdonald.
1923	Conservatorium building becomes the property of the University by deed of gift from Lady Strathcona in accordance with the wishes of her father, the late Lord Strathcona.
1929, September	Mr. Douglas Clarke takes up his duties as Director.
1930, September	Mr. Douglas Clarke appointed Dean of Faculty of Music.
1933, November 30th	The Principal, Sir Arthur Currie, died.
1935, October 5th	Mr. A. E. Morgan installed as Principal and Vice-Chancellor.
1938, January 7th	Mr. Lewis W. Douglas installed as Principal and Vice-Chancellor.
1940, January 12th	Dr. F. Cyril James installed as Principal and Vice-Chancellor.

PUBLIC EVENTS OF SESSION

The chief public events of last session were:—

1946

October 11th Presentation at the Royal Victoria College of Diplomas of Associateship and certificates gained in the examinations at the end of last session.

Scholarships and bursaries were awarded as follows:—

Peterson Memorial Scholarship: Marcelle Manny—Violoncello

Ellen Ballon Scholarship for pianoforte divided between Campbell Laing, Lenore Mahase } Pianoforte

Bursaries: Donald Anderson—Flute
Steven Cerny—Clarinet
Douglas Deeks—Flute
Lois Goodwin—Pianoforte
Margaret Gilmour—Singing
Harvey Grossman—Violin
Isabel Kendree—Singing
Alfred Masella—Violin
Shirley Sproule—Singing

November 13th and 20th Recitals by candidates who obtained highest marks in their respective grades at the Local Centre spring examinations.

1947

February 5th Recital by Students in Conservatorium Hall.
12th Recital by Students in Conservatorium
21st Recital by Junior Students in Conservatorium Hall.

March 12th Recital by Students in Conservatorium Hall.
19th Recital by Students in Conservatorium Hall
26th Recital by Students in Conservatorium Hall
27th Concert by the Conservatorium Orchestra in Royal Victoria College Hall

April 14th Concert of Chamber Music by Students in Conservatorium Hall.

SESSIONAL ANNOUNCEMENT

The work of the Conservatorium of Music for the season 1947-48 will begin on September 15th, 1947, and will end on June 5th, 1948. It consists of three terms of eleven weeks each, with an additional summer term of three weeks, viz:—

(a) September 15th to Nov. 29th.

(b) December 1st to February 28th (Christmas vacation, December 20 to January 5th).

(c) March 1st to May 15th.

Short summer term if desired.

Lectures arranged in progressive courses are offered as forming part of a connected curriculum, leading to certificates and diplomas, as well as to degrees in Music in the University.

The lectures will begin in the last week of September and extend over three terms of ten weeks each, viz:—

(a) September 29th to December 6th.
(b) December 8th to February 28th.
(c) March 1st to May 8th.

The examinations in Montreal for certificates and diplomas will be held towards the end of the third term, i.e., from May 3rd to May 15th. The Theoretical Examinations which precede the Practical Local Examinations will begin approximately May 1st.

ADMISSION

Students of the Conservatorium are admitted either as:—

Regular Students, taking an organized course, which includes individual instruction in a First and Second Subject, together with such classes and lectures as may be thought advisable by the Director, leading to the Diploma of Licentiate in Music or the Degree of Bachelor of Music in the University.

Partial Students, who, besides individual instruction in the one principal subject, have the privilege of attending certain classes. Instrumentalists are, at the discretion of the Director, assigned to certain of the following classes:—Theory, Harmony, History, Form and Analysis; Ensemble Playing. Vocalists are assigned to two of the following classes: Theory, Sight-Singing, Choral Class.

Class Students. Those wishing to attend lectures or classes only in either theoretical or practical subjects.

FEES

The University reserves the right to change tuition, board and residence, and other fees without notice.

CONSERVATORIUM OF MUSIC

The fees are as follows:—

Regular Students. $225.00 a year payable at the beginning of the session (not later than October 1st) or in two instalments of $115.00 each, payable before October 1st and January 15th, respectively. This sum also covers the fees for the Diploma or Degree Examination at the end of the year, as well as fees to Students' Societies, and charges for Physical Education—which is compulsory.

At the request of the students themselves and by the authority of Senate, a fee of $12.00 is collected from all undergraduates for the support of certain Student Societies, the use of the skating rinks and tennis courts during the session and for admission to the home games under the control of the Athletic Board.

Partial Students. $15.00 to $65.00 (according to instructor selected) per term of eleven weeks. Students paying in full for three terms of eleven weeks each are allowed to take the examination for a Local Centre Examination Certificate at the end of the year without any further fee.

Class Students. Fees vary between $5.00 and $25.00 per term, according to class. Precise information can be obtained on this point from the Secretary.

The fees for examinations for Certificates, when not included in the term fees as above mentioned, are the same as the fees for the Local Examinations. (See page 1650.)

In all cases fees must be paid strictly in advance at the office of the Conservatorium.

No individual or class lessons will be given to any student who is unable to produce a receipt showing that the necessary fees have been paid.

FEES FOR DIPLOMA AND DEGREE EXAMINATIONS

Diploma of Associate (A.Mus.)—Fees for examination, $15.00. Diploma fee, $2.50.

Diploma of Licentiate (L.Mus.)—Fees for examination, $45.00, of which $15.00 is payable at each examination. Diploma fee, $5.00.

Degree of Bachelor of Music (Mus.B.)—Matriculation fee, $10.00 (see General Announcement of the University). Fees for examinations payable as follows:—First examination in Music, $20.00. Second examination in Music, $20.00. Final examination in Music, $20.00. Graduating fee, $20.00.

Although under special conditions exemptions from certain examinations for the Diplomas of Associate and Licentiate and Degree of Bachelor of Music may be allowed, there is no exemption from the *fees* given above, except in the case of candidates holding the requisite McGill Local Centre Certificates.

Degree of Doctor of Music (Mus.D.)—Fee $100.00, one-half of which ($50.00) is paid when submitting the exercise and the balance ($50.00) before the final examination.

N.B.—Candidates examined in theoretical subjects connected with the above Degrees, Diplomas and Special Certificates at centres other than Montreal will probably have to pay a local supervisor's fee in addition to the fees stated above.

CONSERVATORIUM REGULATIONS

1. Fees are not refunded, nor is the length of the term extended on account of temporary absence. Absence from lessons caused by prolonged illness may be allowed for, provided the Secretary is notified and a Doctor's certificate presented.

2. *No business matters can be arranged through the instructors, but must be transacted through the office.*

3. Students cannot register for less than a term and must notify the Secretary, at least a week before the end of the term, if they wish to discontinue lessons, otherwise it is understood that lessons will be continued through the following term and fees for the full additional term must be paid.

4. Any lessons missed in consequence of the instructor's absence will be made up at the mutual convenience of instructor and pupil. Lessons missed by students are their loss, unless a Doctor's certificate is produced, when lessons will be made up, but no fees will be refunded or remitted.

5. *All students must sign the attendance register in the office immediately after each lesson.*

6. Every student (except those attending schools) must, at the beginning of each session, *either* produce a medical certificate from his

or her medical attendant or be examined by the Medical Officer appointed by the University. (See General Announcement.)

7. No student suffering from an infectious or contagious disease, or who is in the opinion of a competent medical attendant, in any way brought into contact with any person infected with such disease, is allowed to attend.

8. Students are required to be punctual at lessons, lectures, concerts and examinations.

9. Notices on the bulletin boards are official, and students are requested to pay due attention to such as may be posted there.

10. No change in course or teacher can be made without first obtaining the consent of the Director.

11. Students are advised to take the sessional examination (the form of such examinations to be decided by the Director) and are prepared for the same by the instructor or instructors to whom they are assigned.

12. *Students wishing either to take part in any public musical performance, publish a composition, or accept a professional engagement, must first obtain the consent of the Director.*

13. The name of each lecture and the hours at which the classes are held will be posted on the notice boards.

14. *Registered students of the Conservatorium must take part in either recitals or concerts, if required to do so by the Director.*

15. Visitors are not allowed to be present during any lesson (class or private) except by permission.

16. The Director has the right to refuse or to cancel at any time the registration of any individual whose presence in the Conservatorium may appear detrimental to its interests.

17. Smoking within the building is absolutely prohibited.

18. Physical education is compulsory for all regular students of the first two years, two periods per week being devoted to it. No student is asked to do work unsuited to his or her physique, and students debarred from exercise of any kind are dealt with separately and carefully advised.

SCHOLARSHIPS

THE SIR WILLIAM PETERSON MEMORIAL SCHOLARSHIPS.—Established in 1921 by the University and by friends, graduates and pupils of the Faculty of Music. The interest upon the original endowment of $6,055 is used to support two scholarships in Music as a memorial to the late Sir William Peterson.

For further details consult the Secretary of the Faculty.

THE SIR WILLIAM MACDONALD MEMORIAL SCHOLARSHIPS.—Established in 1922 by the University. The interest upon the original endowment of $6,000 is used to support scholarships in Music as a memorial to the late Sir William Macdonald.

For further details consult the Secretary of the Faculty.

ELLEN BALLON PIANO SCHOLARSHIP.—Founded in 1928 by a gift of $1500 from Miss Ellen Ballon, a graduate of the Conservatorium. The principal has been increased by a further gift of $1,500 from Miss Ballon. In making this award the Faculty takes into account the need as well as the ability of candidates.

For further details consult the Secretary of the Faculty.

UNIVERSITY BURSARIES

Full-time students studying for the Licentiate in Music or for the achelor of Music degree may apply for University Bursaries. For details see the separate Scholarships Announcement which may be obtained from the Registrar's Office.

REQUIREMENTS FOR DEGREES

(For Fees, see page 1616)

For requirements for the Degree of Doctor of Music, see page 1692

DEGREE OF BACHELOR OF MUSIC

All candidates for this degree must pass the following examinations:—

1. The Matriculation examination.
2. The First examination in Music (at the end of the first year).
3. The Second examination in Music (at the end of the second year).
4. The Final examination in Music (at the end of the third year).

A specimen set of papers for each of the three examinations in Music can be obtained from the Secretary, price 25c. each.

THE MATRICULATION EXAMINATION

The Matriculation Examination is held yearly, in June, at McGill University and at various centres throughout the Dominion. There is also an examination held in September, but at McGill University only. Candidates for musical degrees are examined in the following:—

1. English (two papers).
2. History (one paper).
3. Two of the following languages:—French, German, Latin, Italian, Spanish (two papers in each of the two languages chosen by the candidate).
4. Algebra or Geometry (one paper).
5. Music—one paper. The paper set is that of the Highest Grade (Harmony and Counterpoint) of the local theoretical examination in Music and must be taken by the candidate at the regular examinations held by the Conservatorium in May.

Further information with regard to this examination, and exemption therefrom through the possession of certain equivalent certificates, can be obtained from the Registrar of the University.

EXAMINATIONS IN MUSIC

The first and second practical studies are no longer required. In their place reading from open score is required in each part of the Mus.B. examination.

First Examination in Music

Note. No student may proceed to the higher examination until he has completed all the requirements of the lower.

(a) Harmony in three and four parts.

(b) Strict Counterpoint up to three parts, answers to Fugue subjects. Canon in two parts.

(c) Form and analysis. Questions will be given on accent, cadences, metre, rhythm, phrasing, etc., and on the form of the pieces included in lists A and B of the Highest Grade Piano Local Centre Examinations.

(d) Musical History, 1600-1900.

(e) Playing on the pianoforte from open vocal score (G & F clefs only).

(f) Viva voce.

Second Examination in Music

(*See note above*)

(a) Harmony in not more than four parts, choral and instrumental

(b) Counterpoint (strict and free) is not more than four parts.

(c) Fugal exposition up to four parts to which must be added a codetta and a counter exposition. The counter subject must be regular and in double counterpoint.

(d) History of music from earliest times to A.D. 1600.

(e) Form and analysis. The candidate must show an intimate knowledge of a few compositions, the names of which will be supplied on application, at least three months before the date of examination.

(f) Elementary knowledge of acoustics or physiology of the voice.

(g) Playing on the pianoforte from string quartet score.

(h) Viva voce.

The possession of the Diploma of Licentiate of Music obtained either under Classes A, C or D from McGill University exempts candidates from the necessity of taking the First and Second Examinations for Mus. B., and, accordingly, candidates can proceed direct to the Final Examination, provided that they have matriculated.

Final Examination in Music

(See note above)

(a) Harmony up to five parts.

(b) Free Counterpoint, up to five parts, in 16th century style.

(c) Fugue in four parts. Countersubject to be in double counterpoint at the 12th.

(d) History of music from 1900 to present.

(e) Form and analysis. Knowledge will be required of such works as the following:—Bach's 48 Preludes and Fugues; Beethoven's Pianoforte Sonatas; Schubert's, Schumann's and Brahms' Songs; an Opera *or* an Oratorio; Symphonies and Overtures by Mozart, Beethoven, Brahms, Mendelssohn, Wagner, besides contemporary works. Candidates may, at least three months before the examinations, obtain from the Secretary of the Faculty of Music a complete list of the works upon which the examination paper in this subject will be based.

(f) Instrumentation. A knowledge of the compass and capabilities of all instruments in the modern orchestra and the scoring of a given passage in a given tme; also the reading at sight from an easy score of a classical composer.

(g) Two compositions to be sent in by a candidate, to be received by the Secretary of the Examining Board not later than the last day of the second week in April. One to be an unaccompanied vocal work (not an anthem) showing considerable vocal resource; the other to be a work for strings, or combination of not less than four instruments or full orchestra The works may be in any form and the instrumental composition should be of extended length. Candidates, when submitting their compositions, must send at the same time, a signed statement to the effect that the works are their own unaided efforts. (The composition, whether accepted or not, will not be returned to the candidate.)

(h) Viva voce.

BACHELOR OF MUSIC—MUSIC IN EDUCATION

Prerequisite for the Course leading to the Degree of Bachelor of Music in Education to be:

(a) Junior Matriculation (or the equivalent).

(b) Completion of all the requirements for the Licentiate Diploma (Class D). (See pages 1639 to 1642.)

Before sitting for the examination, candidates must submit an original thesis on some phase of music in education, previously approved by the Dean of the Faculty of Music. Thesis must be in the hands of the Secretary of the Faculty of Music before April 1st.

Course Leading to the Examination will be in three parts:—

1. Theoretical work.
2. Practical work.
3. Viva voce.

Note. No student may proceed to the higher examination until he has completed all the requirements of the lower.

1. THEORETICAL WORK

   (a) Harmony up to 4 parts, thus: S.S.A.; S.A.B.; S.S.A.A.; S.S.A.B.; S.A.T.B.; including harmonizing melody (in the style of a Bach chorale) for strings or wind.

   (b) Counterpoint, strict and free up to 4 parts.

   (c) Fugal exposition in four parts to which must be added a codetta and a counter exposition. The counter subject must be regular and in double counterpoint.

   (d) History of Music—1900 to date.

   (e) Form and Analysis. Knowledge will be required of such works as the following: Bach's 48 Preludes and Fugues; Beethoven's Pianoforte Sonatas; Schubert's, Schumann's and Brahms' Songs; and an Opera or Oratorio; Symphonies and Overtures by Mozart, Beethoven, Brahms, Mendelssohn, Wagner, besides contemporary works. List of works on which the examination papers in this subject will be based may be obtained from the Secretary of the Faculty of Music at least three months before the date of the examination.

2. PRACTICAL WORK

   Ability to:

   (a) Direct School Band or Orchestra.

   (b) Direct School choral group with Band or Orchestral accompaniment.

   (c) Teach School Instrumental class, brass or strings or reed.

3. VIVA VOCE

   (a) Questions concerning any phase of school music.

   (b) Preparation, and test, of repertory will be given by means of gramophone recordings concerning candidate's knowledge of thematic material in works selected for that purpose. A list of works on which the test will be based may be obtained from the Secretary of the Faculty of Music six months prior to the examination.

   (c) Questions pertaining to the submitted thesis.

REQUIREMENTS FOR THE DIPLOMA OF LICENTIATE IN MUSIC

(For Fees, see page 1616)

Candidates may elect to be examined either in:—
Class A—Theoretical Subjects and Composition, or
Class B—Practical Subjects as Performers, or as
Class C—Professional Instructor, or
Class D—School Teacher.

CLASS A—THEORETICAL SUBJECTS AND COMPOSITION

First Examination

Note. No student may proceed to the higher examination until he has completed the requirements of the lower.

(a) Advanced Rudiments, including Sight Reading and Ear Tests.

(b) The Harmony and Counterpoint paper of the Highest Grade Local Centre theoretical examinations.

(c) History and Form and Analysis paper of the Highest Grade Local Centre theoretical examinations.

Second Examination

(*See note above*)

Requirements a, b, c and d are the same as those for the First Examination for Mus.B. (See page 1619.)

(e) The regulation requiring the submission of a composition is cancelled. Instead, candidates will be required to sit for an examination in the setting of words for unaccompanied S.A.T.B., or specified voices with instrumental accompaniment.

Third Examination

(*See note above*)

Requirements a, b, c, d and e are the same as those of the Second Examination for Mus. B. (See page 1619.)

(f) Practical work on pianoforte or organ. The requirements are those of the Senior Grade of the practical local examinations. Exemption from this test may be claimed if candidates possess certificates showing that they have passed that examination.

(g) Composition of (1) a movement in Sonata form (for either pianoforte, or organ, or violin and pianoforte, or any other combination); or (2) a Chorus with independent accompaniment for strings or some combination of orchestral instruments (*not an anthem*); or (3) an extended composition for strings. This must be received by the Secretary not later than the last day of the second week in April. (The Composition, whether accepted or not, will not be returned to the candidate).

(h) Instrumentation. A knowledge of the compass and capabilities of all instruments in the modern orchestra and the scoring of a given passage in a given time.

(i) Viva voce; also the reading at sight from an easy full orchestral score of a classical composer.

CLASS B—PRACTICAL SUBJECTS AS PERFORMERS
FIRST EXAMINATION

Candidates are required to pass Senior Grade of the Local Centre Examination in Theory.

and

(a) Easy Transposition Tests (for instrumentalists only).

(b) Diction in respect of Modern Languages (for singers only).

(c) Practical work either as Vocalist or Instrumentalist, in Principal Study, the requirements of which will be those of the Highest Grade of the practical local examinations. Candidates will be asked questions on the form of the works presented, as well as questions relating to keys and modulations.

SECOND EXAMINATION (SEMI-FINAL)

The requirements for candidates whose chief study is either pianoforte, or violin, or violoncello, or organ, or singing, are found under separate headings.

PIANOFORTE

(No written examination)

1. *Scales.*

Major, minor (both forms) and chromatic scales at the distance of 8ve, 3rd, 6th and 10th through four octaves; also in double 3rds (in similar motion only) and double 8ves through two octaves.

The candidates must be prepared to play all the above mentioned scales in all keys, in either similar or contrary motion, beginning on either the highest or lowest notes, and with either legato or staccato touch (double 3rds in similar motion only).

2. *Arpeggios.*

Common chords, with hands commencing either an 8ve, 3rd, 6th, or 10th apart, in similar and contrary motion, also common chords in double octaves, legato and staccato, beginning on either the highest or lowest notes; dominant and diminished 7ths in similar motion an octave apart or at any inversion or interval; in contrary motion commencing either on the same note and working outwards, or on the extreme notes and working inwards. Also double octaves.

3. *Reading at Sight.*

4. *Performance.* (Extra marks will be given for playing from memory.)

(a) One of the following Preludes and Fugues:—

Prelude and Fugue No. 12 in F minor—Book I
No. 19 in A major—Book I
No. 5 in D major—Book II
No. 10 in E minor—Book II
..... BACH

or

French Suite No. 1 in D minor ..... BACH

(b) Variations on a Hungarian Song—Op. 21 No. 2
or
Variations on a theme by Schumann—Op. 9
..... BRAHMS

or

24 Variations in D Major on "Vieni amore" by Righini—
BEETHOVEN

(c) Etudes: Op. 25, Nos. 1 or 9, or
Op. 10, Nos. 3 or 5
or
Nocturnes Op. 15 No. 2 or Op. 48 No. 1, or
Op. 9 No. 3.
..... CHOPIN

(d) Ragamuffin ..... JOHN IRELAND
or Preludes 14 (E flat minor) *and* 18 (F minor) of 24 Preludes—
Op. 11 ..... SCRIABIN
or Danse profane (from Two Dances—(1) Danse sacree,
(2) Danse profane) ..... DEBUSSY

(e) A piece of the candidate's own choice.

5. Questions will be asked on the general outlines of form shown in the pieces and also on the general outlines of musical history.
Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLIN

(No written examination)

1. *Scales.*

Any major or minor scales (both forms), selected by the examiners in thirds, sixths, and octaves, one note to each bow, through two octaves. Also any of the ordinary scales through three octaves with various bowings.Chromatic scale starting from F in the first position (D string) through two octaves.

2. *Arpeggios.*

All major and minor chords throughout three octaves, and in octaves throughout two octaves. Dominant sevenths and diminished sevenths in all keys throughout three octaves.

3. *Reading at Sight.*

4. *Performance.*

Candidates must perform any one Etude from each of the following composers:—Kreutzer, Fiorillo, Gavinies, and Rode, and also play one of the following:

Concerto No. 5 in A major (K. 219) ..... MOZART
Sonata in F major (Op. 24) ..... BEETHOVEN
Sonata in G major (Op. 30 No. 3) ..... BEETHOVEN
Sonata in G major (Op. 78) ..... BRAHMS

5. *Questions.*

Questions will be asked on the general outlines of form shown in the studies and pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLONCELLO

(No written examination)

1. *Scales.*

Major, minor (both forms), and chromatic scales in all keys.

2. *Arpeggios.*

All majors and minors (both forms). Dominant and diminished sevenths.

The candidate must be prepared to play the scales with various bowings.

3. *Reading at Sight.*

4. *Performance.*

Candidates must be prepared to play one piece from any two of the following groups—two items in all:—

(a) Suite No. 1 ..... J. S. BACH

(b) Sonata in E minor (Op. 38) ..... BRAHMS
(1st movement only) or
Sonata in F (Op. 99) ..... BRAHMS
(1st movement only) or
Sonata in A major (Op. 69) ..... BEETHOVEN
(The whole)

(c) Also any two of the following pieces:—
Seven Variations on a Theme from "The Magic Flute" (Op. 66) ..... BEETHOVEN
Two Poems ..... HUGO ANSON
(Oxford University Press)
Slumber Song (arr. Harvey Grace) ..... BACH
(Oxford University Press)
Five Irish Folk Tunes ..... HOWARD FERGUSON
(Oxford University Press)

5. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

VIOLA, DOUBLE-BASS, HARP AND WIND INSTRUMENTS

Requirements will be forwarded to candidates on application to the Secretary, 677 Sherbrooke Street West, Montreal.

ORGAN

(No written examination)

1. *Scales.*

(a) Manuals only (with both hands).

(b) Pedals only.

(c) One hand only with pedals, at varying degrees of speed and beginning with either the highest or lowest note.

In the case of (a) and (c) contrary motion may be required.

2. *Arpeggios.*

(a) For pedals through two 8ves; common chords, major and minor in keys of C, D, D flat, E flat, E, and F.

(b) One hand and pedals combined, in contrary motion.

3. *Reading at Sight.*

4. *Transposition.*

Of a short passage, a semitone or tone above or below.

5. *Performance* of either List A or List B.

List A.

BUXTEHUDE: Prelude and Fugue (Ed. Ley) (Oxford University Press) No. 14 in G minor.

BACH: In Dulci Jubilo: (Book XV, page 26; Novello Ed.; or page 244, Peters Ed.).

STANFORD: No. 6 of 6 Preludes and Postludes, 2nd set Op. 105. (Stainer & Bell).

List B.

BACH: Vivace from Trio Sonata in D Minor No. 3. (Novello or Peters).

MENDELSSOHN: Last Movement 5th Sonata. (Any edition).

FRANCK: Prelude Fugue and Variation (B minor). (Peters 3744A)

6. *Questions.*

Questions will be asked on the general outlines of form shown in the pieces, and also a few on the general outlines of musical history.

Candidates must be prepared to answer any advanced questions on rudiments of music.

SINGING

(No written examination)

1. *Scales and Technical Exercises.*

Major, minor, and chromatic scales at varying degrees of speed.

(For example, see Randegger's Singing Primer, pages 38, 41 and 48) Also any six of the technical exercises given on pages 161 to 169 of the same work, selected according to voice.

2. *Arpeggios.*

See Randegger's Singing Primer, pages 102, 104 and 107.

3. *Reading at Sight.*

4. *Performance.*

Studies.

Soprano or Tenor—Any two from No. 1 to No. 17, Fourth Series.
Part I. 30 Solfeggios.....Vittorio Ricci
Alto or Bass—Any two from No. 1 to No. 17, Fourth Series.
Part II. 30 Solfeggios.....Vittorio Ricci
Medium Voices—Any two from No. 1 to No. 17, Fourth Series.
Part III. 30 Solfeggios.....Vittorio Ricci

The selection of the pieces to be rendered in this examination is left to the candidates, who must, however, choose music of the following character:—

(a) Two specimens of Recitative.

(b) Two arias from an Oratorio or Oratorios,
or
Two arias from an Opera or Operas.

(c) One song by any of the following composers:—Schumann, Schubert, Franz, Brahms, Loewe, Parry, Elgar, Wolf, Henschel, Stanford, Scott, Ireland.

(d) One song by any of the following composers:—Balakireff, Grieg, Hahn, Sibelius, Armstrong Gibbs, Holst, Vaughan-Williams, Strauss, Delius and Faure.

(e) Two specimens of Folk Song from "A selection of Collected Folk Songs," C. Sharp and Vaughan-Williams (Novello).
(To be sung unaccompanied.)

N.B.—The selection made will be taken as an indication of the candidate's taste.

5. *Questions.*

Questions may be asked as to the style of the pieces selected and the modulations or keys through which the music passes, etc.
Questions may be asked on the more advanced rudiments of music.

THIRD EXAMINATION (FINAL)

The requirements for candidates whose chief study is either Pianoforte, or Violin, or Violoncello, or Organ, or Singing, are found under separate headings. There is no written examination.

PIANOFORTE

1. *Transposition Test.*

   The transposition of a passage a tone above or below.

2. *Sight Reading Test.*

3. *Questions.*

   Questons will be asked on musical history from the 16th century to the present day, form as shown in the works presented as well as general musical knowledge.

4. *Performance.* (All pieces must be played from memory.)

   One of the specified items from each group to be prepared:

   (a) Prelude and Fugue in F sharp major, Prelude and Fugue in C sharp major — Bk. I
   Prelude and Fugue in A flat major, Prelude and Fugue in D sharp minor, Prelude and Fugue in C sharp minor — Bk. II
   French Suites Nos. 4, 5 or 6
   ..... BACH

   Chromatic Fantasia and Fugue ..... BACH

   (b) Any *two* of the following

   Etudes: Op. 10, Nos. 1, 2, 7, 8; Op. 25, Nos. 6, 8, 10, 11 ..... CHOPIN

   (c) Concerto No. 5, Op. 73
   Sonata in E, Op. 109
   Sonata in E flat, Op. 81a
   ..... BEETHOVEN

   Sonata in B minor, Op. 58 ..... CHOPIN

   Sonata in G minor, Op. 22 ..... SCHUMANN

   (d) Variations on "O Mistress Mine" (Novello) ..... BYRD

   Variations in A ..... GLAZOUNOV
   (Omitting variations 4, 5, 12)

   Ballade in D major, Op. 10, No. 2 ..... BRAHMS

   Scherzo in E flat minor ..... BRAHMS

   Etudes Symphoniques
   (Theme and any three Etudes) ..... SCHUMANN

   (e) Reflets dans l'eau ..... DEBUSSY

   L'Isle Joyeuse ..... DEBUSSY

   Poissons d'Or ..... DEBUSSY

(Continued overleaf)

Special Note.—In place of a selection from sections (d) and (e) the candidates may present César Franck's Prelude, Choral and Fugue.

(e) Continued.

Bourrée Fantasque ..... CHABRIER
(Enoch & Sons)

Ondine ..... RAVEL
Sonatine ..... RAVEL
Rhapsody ..... JOHN IRELAND
A Reel, No. 4 of Four Irish Dances (Stainer & Bell) ..... STANFORD-GRAINGER

(f) A piece of the candidate's own choice.

5. *Examination in Second Study.*

Certificates gained in any of the three higher grades of the local practical examinations exempt candidates from this test, whether the subject chosen is Organ or Violin, or Violoncello, Singing or Wind Instrument.

VIOLIN

1. *Sight Reading Test.*

2. *Questions.*

Questions will be asked on Musical History from the 16th century to the present day, form as shown in the works presented as well as general musical knowledge.

3. *Performance.* (All pieces to be played from memory.)

One piece to be selected from each of the following groups:—

(a) Chaconne ..... BACH
Sonata in G minor ..... BACH
(For violin alone, Prelude and Fugue only.)

(b) Sonata in C minor, Op. 30, No. 2 ..... BEETHOVEN
Sonata ..... DEBUSSY
Sonata ..... RAVEL
Sonata in A ..... CESAR FRANCK
Sonata in A minor ..... JOHN IRELAND
(Winthrop Rogers)

(c) Concerto (1st two movements) ..... BEETHOVEN
Concerto (first movement) ..... ELGAR
Concerto in D minor (first two movements) ..... MAX BRUCH
Concerto No. 4 in D major ..... MOZART
(First two movements; Joachim's Cadenza)
Concerto in A minor Op. 73 ..... GLAZOUNOV
First *or* second movement

(d) Spanish Suite:
Suite Espagnole ..... NIN
Nigun—Improvisation ..... ERNEST BLOCH
La Fontaine d'Arethuse ..... SZYMANOWSKI
Variations ..... JOACHIM

4. *Examination in Second Study* (which must be the Pianoforte).

Certificates gained in any one of the three highest grades of the local practical examinations in pianoforte exempt candidates from this test.

VIOLONCELLO

1. *Reading at Sight.*

2. *Questions.*

Questions will be asked on Musical History from the 16th century to the present day, form as shown in the works presented as well as general musical knowledge.

3. *Performance.* (All pieces to be played from memory.)

Any three of the following:—
Sonata in F Major (Op. 99) (First movement) ..... BRAHMS
Sonata in E minor (Op. 38) (Last movement) ..... BRAHMS
Spanish Nocturne (Pub. by Hawkes & Son) ..... E. GOOSSENS
Concerto (Op. 85) (First Movement) ..... ELGAR
Sonata (Last Movement) ..... DELIUS
Concerto in B minor (Op. 104) (First Movement) ..... DVORAK

4. *Examination in Second Study* (which must be the Pianoforte).

Certificates gained in any one of the three highest grades of the local practical examinations exempt candidates from this test.

ORGAN

1. *Transposition and Modulation Tests.*

The transposition of a passage into another key not exceeding a third above or below. Modulation—Candidates are advised to make their modulation musically and not only mathematically correct.

2. *Sight Reading Test.*

3. *Questions.*

Questions will be asked on Musical History from the 16th century to the present day, form as shown in the works presented as well as general musical knowledge.

4. *Performance.*

Of one piece from each of the following lists:—

(a) Prelude and Fugue in G major . . . . . BACH
(Book VII Novello)
Prelude and Fugue in E flat major . . . . . BACH
(Book VI, Vol. II Novello)
Fantasia and Fugue in G minor . . . . . BACH
(Novello VIII or Peters)
Prelude and Fugue in C minor . . . . . VAUGHAN WILLIAMS
(Oxford University Press)

(b) Sonata in E minor No. 8 (Op. 132) . . . . . RHEINBERGER
(Novello)
Sonata in C sharp minor . . . . . HARWOOD
(Schott)
Sonata Britannica No. 3 Op. 152 . . . . . STANFORD
(Stainer & Bell)
Sonata in G major Op 28 . . . . . ELGAR
(Breitkopf & Hartel)
Sonata in G minor Op. 28 . . . . . PIUTTI
(Peters)

(c) Dithyramb . . . . . HARWOOD
Toccatina on "Corde Natus" (Augener) . . . . . EAGLEFIELD HULL
Concert Fantasia on "Hanover" (Novello) . . . . . E. LEMARE
Vorspiel and Liebestod (arr. J. E. West) . . . . . WAGNER
(Novello)
Choral in E . . . . . FRANCK
Choral in B minor . . . . . FRANCK
(Peters or Durand)
Introduction and Passacaglia . . . . . ALCOCK
(Oxford University Press)

5. *Short Extemporization on a Given Theme.*

6. *Examination in Second Study.*

Certificates gained in any one of the three highest grades of the local practical examinations exempt candidates from this test, whether the subject chosen is either Pianoforte, or Violin, or Violoncello, Singing, or Wind Instrument.

SINGING

1. *Performance.* (All studies and works submitted must be sung from memory.)

   (a) Studies.

   Soprano or Tenor—Any two from No. 18 to the end of the Fourth Series, Part I, of 30 Solfeggios.....VITTORIO RICCI

   Alto or Bass—Any two from No. 18 to the end of the Fourth Series, Part II, of 30 Solfeggios.....VITTORIO RICCI

   Medium Voices—Any two from No. 18 to the end of the Fourth Series, Part III, of 30 Solfeggios.....VITTORIO RICCI

   (b) The principal solo work from an opera or oratorio.

   (c) Not less than three songs in various languages to exemplify proficiency in diction.

2. *Sight Reading Test.*

3. *Questions* on Musical History from the 16th century to the present day, form as shown in the works presented as well as general musical knowledge.

4. *Chief Study.*

   The studies by Vittorio Ricci must be prepared by all candidates, but as types of voices and capabilities of vocalists differ so much, it is impossible to specify satisfactorily other work on which any individual candidate will be examined. The Examination Board is prepared to accept in the Final Examination any works on which a correct judgment can be formed as to whether the candidate shall, after examination, be awarded the Diploma:—

   (a) As soloist for Concert Work only.

   (b) As soloist for Light Opera.

   (c) As soloist for Grand Opera.

   (d) As soloist for Oratorio.

   (e) As soloist for a combination of any of these.

   Candidates must submit to the Board of Examiners, through the Secretary, a list of works which they propose to present for the Final Examination.

5. *Second Study* (which must be the Pianoforte).

   Certificates gained in any one of the three highest grades of the local practical examinations for Pianoforte exempt candidates from this test.

   The ability of candidates to play their own accompaniments on the pianoforte to the vocal work prepared by them for the examination, together with the reading of a song accompaniment at first sight, will be accepted as second study.

CLASS C. PROFESSIONAL INSTRUCTOR (THEORY AND PRACTICE)

First Examination

Note. No student may proceed to the higher examination until he has completed all the requirements of the lower.

(Partly written and partly viva voce)

Candidates are required to pass the Highest Grade of the Local Centre examinations in Theory. (See page 1650 and 1651.)

Chief subject.

Candidates will be expected to show sufficient executive ability to perform the technical work, studies and pieces contained in the list for the current year's local examination in the Highest Grade. (Total exemption from this examination can be claimed if candidates can produce certificates of having previously passed the Highest Grade, theoretical, and the Highest Grade, practical, of the local examinations.)

N.B.—Sight reading tests and ear tests will be given in each part of this examination.

Second Examination (Semi-Final)

(*See note above*)

(Partly written and partly viva voce)

1. Harmony in three and four parts up to chords of the 9th, including suspensions and use of passing notes.
2. Counterpoint in two parts.
3. Musical History 1600-1900.
4. The principles of Elementary Form and Analysis.
5. Chief study.

Pianoforte.

For Scales, Arpeggios, reading at sight and transposition the requirements are the same as those for performer. (See pages 822 and 823.)

Performance.

Three Part Inventions.....Bach

Nos. 3 D major *and* 4 D minor.

or

Nos. 11 G minor *and* 12 A major. (Tonmeister Edition)

and one of the following Preludes and Fugues.

Preludes and Fugues — No. 5 in D Book II / No. 20 in A minor Book II } .....Bach

and all of the following:

Sonata in A flat, Op. 110.....Beethoven

Ballade in B major and minor, Op. 10 No. 3.....Brahms

Idylle (pub. Enoch, Paris).....Chabrier

Chelsea Reach (Augener).....John Ireland

(For Violin, Violoncello, Singing, Organ, etc., the requirements are those of the Semi-final Performer.)

Viva voce.

Questions will take the following form:—

(1) On the position and action of hands, arms and fingers and on the use of the pedal.

(2) On the teaching of scales (in single notes) and arpeggios. N.B. In Nos. 1 and 2 no arbitrary or doctrinal opinion will be held by the examiners. Any good method will be acceptable.

(3) To finger certain technical passages presented by the examiner to the candidate.

(4) Questions will be asked on the general outlines of form shown in the pieces and on the contents of "The Growth of Music"—Part 3 by H. C. Colles, published by the Oxford University Press.

N.B.—Outline of questions likely to be asked in connection with Violin, Violoncello, Singing and Organ may be obtained from the Secretary of the Conservatorium.

6. Second study.

The requirements are similar to those of the Senior Grade of the local examinations.

If the candidate's chief study is Singing, Pianoforte Accompaniment will be accepted as second subject.

THIRD EXAMINATION (FINAL)

(*See note above*)

(Written Examination)

1. Harmony in not more than four parts. (Choral and Instrumental.)
2. Counterpoint (strict and free) is not more than four parts.
3. Fugal Exposition in three parts.
4. History of Music from earliest times to A.D. 1600.
5. Form and Analysis.
6. A paper on elementary Physiology of the Voice or on Acoustics.
7. A paper on the Art of Teaching of the candidate's chief subject.

Special Note.—This paper will consist of *set questions* based on the following:—

Candidates will be required to give names of Studies and Pieces with their Composers from classical or standard work, of different degrees of difficulty suitable for special purposes.

To answer questions on method and procedure in teaching.

To finger and phrase given passages, give breathing indications, etc.

Questions on Rhythm, Technique.

To give outlines of work for specific periods of study.

Memorization and Appreciation.

To show such general knowledge, both musical and technical, as might be expected of a reasonably equipped music teacher.

Final Examination

(Viva Voce Examination)

Requirements will be found under a separate heading corresponding to the candidate's chief subject.

PIANOFORTE

1. (a) To answer questions on the teaching of double notes (3rds and 6ths) and double octaves, legato and staccato.
   (b) To answer questions on:—
   Production of tone.
   Phrasing.
   The playing of ornaments.
   Interpretation.
   Use of the pedals.
   (c) To finger certain technical passages presented by the examiner to the candidate.
   (d) To show an adequate knowledge of pianistic literature.
   (Questions here will embrace the works of Bach, Beethoven, Chopin, Schumann, Brahms, Debussy and Ravel.)

N.B.—Books recommended for reading "Technique and Expression" Franklin Taylor (Novello), and "Musical Interpretation" Tobias Matthay.

The History of Pianoforte Music (Westerby) and the various volumes of "The Pilgrim Series" (Oxford University Press).

2. Candidates must be prepared to play the following:—

(a) Suite No. 2 in F (Tonmeister Ed.) ..... Handel

or

French Suite No. 1 in D minor ..... Bach

or

Prelude and Fugue in A minor (Book 1) ..... Bach

(b) Sonata No. 23 in C (The English) (Augener) ..... Haydn

or

Sonatas—Op. 28 (in D major), or
Op. 31 (in E flat), or
Op. 78 (in F sharp major) } ..... Beethoven

or

Sonata in E minor Op. 7 ..... Grieg

(c) Capriccio—Op. 76 No. 1
Op. 76 No. 2 } Any two ..... Brahms
Op. 76 No. 8

or

Fantasies Op. 116 (any two) ..... Brahms

or

Ballade Op. 118 No. 3 (G minor) ..... Brahms

or

Intermezzo Op. 119 No. 2 ..... Brahms

(These are all in the Brahms volume Book 2 published by Peters.)

(d) Christmas Pastoral (transcribed by Clarence Lucas).....BACH
(Oxford University Press)
and one of the following:
Nocturne No. 5 in F sharp
Nocturne No. 18 in E } .....CHOPIN
Zigeuner-Novelle Op. 38 No. 3.....POLDINI
The Scarlet Ceremonies (from "Decorations")....JOHN IRELAND
(Augener)
Variations on a Lettish Theme Op. 6.....JOSEPH WIHTOL

(e) A piece of the candidate's own choice by a modern English, French or Russian Composer.

3. Sight Reading Test.

VIOLIN

1. To demonstrate method of finger-training and bowing, posture and fingering, also to finger and bow certain passages, if required.
2. Should the Examiner desire it, the candidate must be prepared to give a student (who is not a pupil of the candidate) a specimen lesson, correcting, if necessary, any errors in bowing, intonation, posture, fingering, etc., and to answer questions and offer suggestions on the work after the student has retired.
3. To differentiate between mechanical and aesthetic expression.
4. To show ability to accompany on the pianoforte.
5. Candidates must be prepared to play any two Studies chosen by themselves from each of the following:—KREUTZER, FIORELLO, RODE, ROVELLI and GAVINES.
6. Performance.

(a) Any of the ten
Sonatas for Violin and Pianoforte.....BEETHOVEN
or Sonata in A minor (Op. 105).....SCHUMANN
or Sonata in A (Op. 100).....BRAHMS

(b) Any one of the following Concertos may be selected by the candidate—
BEETHOVEN, MENDELSSOHN, ERNST in F sharp minor, PAGANINI, VIEUXTEMPS, TSCHAIKOWSKY, SAINT-SAENS in B minor, BRAHMS, ELGAR, WIENIAWSKI, BRUCH, LALO.

(c) Romance in E minor.....SINDING
or
Havannaise.....SAINT-SAENS
or
Rhapsodie Piedmontese.....SINAGAGLIA

7. Sight Reading Test.

VIOLONCELLO

See under Violin for requirements 1, 2, 3, 4 and 7.

Candidates must be prepared to play—

Nos. 11, 16 and 20 Studies ..... DUPORT
And any two Studies ..... DOTZAUER
(From 24 Daily Studies)

Any one of the five Sonatas (selected by the candidate) BEETHOVEN
To show a general knowledge of the Six Suites ..... J. S. BACH
Symphonic Variations ..... BOËLLMAN
Romance ..... WAGNER-POPPER

ORGAN

1. To demonstrate method of instruction for overcoming difficulties in pedal technique, clear part playing, independence of hands and feet, position of body, stop management, etc.
2. To answer questions as to the causes of difference of tone between the various stops.
3. To explain the principles of pedalling and mark passages submitted to candidates for that purpose.
4. To be prepared to play one of the following groups and one piece of his own choice—

(a) Sonata No. 2 in C minor ..... BACH
(Book IV Novello)

Chorale in A minor ..... FRANCK
Psalm Prelude No. 1 ..... HOWELLS
(Novello)

(b) Sonata No. 5 in C major ..... BACH
(Book V Novello)

Prelude on Jesu, meine Freude—(Op. 65—No. 38) .. KARG-ELERT
Large Sostenuto (from a Sea Symphony) .. VAUGHAN WILLIAMS
Prelude on Jesu, meine Freude—(Op. 65—No. 38) ... KARG-ELERT
(Stainer & Bell)

(c) Chorale Prelude—Herr Jesu Christ, dich zu uns wend ..... BACH
Sonata No. 1 ..... MENDELSSOHN
Prelude on Vexilla Regis ..... BAIRSTOW
(Augener)

5. Sight Reading Test.
6. To extemporize and transpose.

SINGING

1. To demonstrate method of instruction in proper methods of breathing, tone, attack, evenness of tone, intonation, expression, overcoming of awkward breaks, resonance, facial expression and posture.

2. To read (at the pianoforte) a simple accompaniment at sight, and also transpose within the limits of a major second above or below.

3. In passages given by the examiner, to phrase or insert breath marks.

4. Candidates must be prepared to give illustrations of Recitative, Solo singing in Opera or Oratorio, and to sing one song of any one composer in each of the following three groups:—

   (a) BACH, HANDEL, MOZART, BEETHOVEN, SCHUBERT, SCHUMANN.

   (b) FRANZ, BRAHMS, LOEWE, WOLF, STRAUSS, PARRY, ELGAR.

   (c) BALAKIEREFF and DEBUSSY, DELIUS, HOLST, VAUGHAN-WILLIAMS, PETER WARLOCK, RAVEL.

   (d) Any Folk Song from "A Selection of Collected Folk Songs" arr. by C. SHARP and VAUGHAN-WILLIAMS (Novello) (to be sung unaccompanied).

5. Sight Reading Test (Vocal).

LICENTIATE IN MUSIC—CLASS D (SCHOOL TEACHER)

PREREQUISITE FOR THE COURSE LEADING TO THIS DIPLOMA TO BE:
Completion of all the requirements for Associate Diploma—Class C
(See pages 1640 to 1643.)

COURSE LEADING TO THE EXAMINATION TO BE IN THREE PARTS:
Note. No student may proceed to the higher examination until he has completed all the requirements of the lower.

1. Theoretical Work.
2. School Music.
3. Practical Work.

1. THEORETICAL WORK.

   (a) Harmony in not more than four parts.

   (b) Counterpoint (strict and free) in not more than three parts.

   (c) Fugal Exposition in three parts.

   (d) History of Music from the earliest time to 1600.

   (e) Form and Analysis.

   (f) Simple instrumentation for High School Band.

2. SCHOOL MUSIC.

   (a) Philosophy of Music in Education.

   (b) Important developments in history of Music in Education.

   (c) The future of Music in Education.

(d) Co-ordinating school choral, instrumental and dramatic enterprises.
(e) School concerts: organization and operation, personnel, etc.
(f) Community projects of an extra-mural character.
(g) High School elective music courses, methods and materials.

3. PRACTICAL WORK.

(a) Ability to play prepared piece (elementary standard) on brass wind instrument.
(b) Preparation of school concert and public performance with examiner present.

DIPLOMA OF ASSOCIATE IN MUSIC

(For Fees, see page 1616)

There are three classes of this Diploma.

Class A—Practical subject as performer.
Class B—Professional instructor.
Class C—School teacher.

The requirements are:—

Class A—Practical—Semi-final Licentiate (Performers' Class) (see pages 1623 to 1628).

Theoretical: Senior Grade Local Centre Examinations (see page 1651).

Class B—Practical: Highest Grade Local Centre Examinations (see pages 1652 and 1653).

Theoretical: Highest Grade Local Centre Examinations (see pages 1650 and 1651).

In addition questions on teaching will be asked.

Class C—School Teacher.

FIRST YEAR.

ABILITY to play the pianoforte is a prerequisite to this Course (Minimum—McGill Conservatorium Local Centre Examinations—Junior Grade).

COURSE leading to the examination to be in three parts:

Note. No student may proceed to the higher examination until he has completed all the requirements of the lower.

1. Theoretical Work.
2. School Music.
3. Teaching.

1. THEORETICAL WORK.

   (a) Harmony in three and four parts: Up to chords of the major and minor dominant ninth and secondary sevenths, including the use of suspensions and passing notes (harmonizing of melodies and figured bass, the completing of a harmonic sentence from a given pattern); the writing of a short passage introducing specified chords.

   (b) Counterpoint in two parts (all 5 species).

   (c) Analysis, together with elementary knowledge of form, questions being based upon the candidate's previous study of the pieces in the current years' Highest Grade, List A, Pianoforte Book—a copy of which will be provided for the candidate in the examination room.

   (d) History—Outlines of Musical History.

   (e) Musical Dictation: A short and simple melody (one part only)

2. SCHOOL MUSIC.

   (a) The function of music in education.

   (b) Scope of child's voice in Primary, Elementary and Secondary School classes.

   (c) Scope of courses in music for Primary, Elementary and Secondary School classes.

   (d) Teaching methods for:

      i. Introduction to vocal reproduction of musical sounds.
      ii. Pitch symbols for tonic sol fa notation.
      iii. Transition from tonic sol fa to staff notation.
      iv. Introduction to "time" in music (note lengths) t.s.f. names.
      v. Keys and key signatures.
      vi. Ear Training, Grade I to Grade VII.
      vii. Sight singing.
      viii. Tone.
      ix. Integration of written work and singing.

3. TEACHING.

   Minimum of 30 hours practice or regular teaching in School Music under supervision. (Candidates suitably qualified may secure partial or complete exemption from this requirement.)

   Students of McGill University School for Teachers who have satisfied their examiners in subjects under the second unit of the first year (School Music) will be exempt from further examination in those subjects.

ASSOCIATE IN MUSIC—CLASS C—SCHOOL TEACHER

SECOND YEAR (FINAL). (*See note above.*)

COURSE leading to the examination to be in four parts.

1. Theoretical work.
2. School music.
3. Practical work.
4. Teaching.

1. THEORETICAL WORK.
   - (a) Harmony in three and four parts up to chords of the 9th, including suspensions and use of passing notes.
   - (b) Counterpoint in two parts (all 5 species).
   - (c) Musical history—1600-1900.
   - (d) The principles of Form and Analysis.

2. SCHOOL MUSIC.
   - (a) Course planning in School Music.
   - (b) Music appreciation in Elementary Schools.
     - i. Scope.
     - ii. Approach.
     - iii. Methods.
     - iv. Materials.
   - (c) Extra-curricular activities: choir, small vocal ensembles, operetta, instrumental, listening groups, music library, assemblies:—
     - i. Aims.
     - ii. Methods of organization.
     - iii. Methods of operation.
     - iv. Integration with after-school activities.
   - (d) Teaching of choral work:
     - i. Introduction to part singing.
     - ii. Intonation.
     - iii. Diction.
     - iv. Phrasing.
     - v. Interpretation.
   - (e) Class Management.
   - (f) Inter-staff Relations.
   - (g) Equipment.

3. PRACTICAL WORK.
   - (a) The use of the baton in directing specified works.
   - (b) Ability to sing first, second or third part of specified part songs, against piano playing different part.
   - (c) Ability to play prepared piece (elementary standard) on a reed instrument.

N.B.—List of pieces will be issued prior to examination.

4. TEACHING.

Minimum of 30 hours practice or regular teaching in school music, and the direction of an open performance of a school choral group. (Candidates suitably qualified may secure partial or complete exemption from these requirements.)

LOCAL CENTRE EXAMINATIONS IN MUSIC

(For Centres with Hon. Local Representatives, see pages 1646 to 1649.)

Recognizing the necessity of helping to raise the standard of musical education in Canada, and at the same time to bring the influence of competent examiners to bear upon instruction, McGill University holds local examinations throughout the Dominion. In view of the fact that it it grants Degrees in Music and Diplomas of Associate and Licentiate in Music, the University extends its field of work by means of these local examinations, which are preparatory to those for Degrees and Diplomas.

The Examiners are appointed by the Board of Governors of the University, the Chairman of the Examining Board being Mr. Douglas Clarke, Dean of the Faculty of Music and Director of the Conservatorium.

GENERAL REGULATIONS

1. All fees must be paid in advance direct to the Secretary of McGill University Conservatorium of Music, 677 Sherbrooke Street West, Montreal, who will supply forms of entry. These can also be obtained from the local hon. representatives or local hon. secretaries. (See pages 1646 to 1649.)

2. A local representative of McGill University will supervise the conduct of the theoretical examination at each centre. All papers will be sent to McGill Unjversity itself.

3. Every certificate gained by candidates in any of the public examinations will bear the imprimatur of McGill University.

4. The Principal of a school may arrange with the Secretary to send an examiner to report on the musical education gained at the school. No individual certificates will be awarded in this case, but merely a collective detailed report drawn up by the examiner and sent to the Principal of the school. (See page 1690 and 1691.)

5. Similar arrangements may be made with regard to Class Singing (See page 1691.)

6. In case of a candidate being prevented by serious illness from attending any examination, the Secretary is authorized, on receipt of a medical certificate, to transfer a candidate to the next examination without further fee.

7. Examinations will be arranged by the Secretary when required and new centres formed.

ADVICE TO TEACHERS AND CANDIDATES

1. Candidates are advised not to attempt too high a grade when first entering for the local examinations, which are arranged in a systematic course of progressive grades, beginning with the Preparatory grade and leading on through the Diploma examinations for Associate and Licentiate of Music to that for the Degree of Mus.B.

2. Teachers as well as candidates are urged to regard the particular studies and pieces selected for examination in any one grade as indicating the degree of difficulty, and not to confine their attention for a whole year to the preparation of two or three examination pieces.

3. In preparation, teachers and pupils should use music of a lower grade at the beginning of the winter, and should not begin too early with the actual pieces selected for examination at the end of the session. Lack of interest often ensues from the monotony entailed by candidates concentrating their whole attention on the examination book for too long a period.

REGULATIONS FOR LOCAL CENTRE EXAMINATIONS FOR CERTIFICATES

1. Theory examinations are held throughout the Dominion about May 1st. No definite date is assigned but the examinations will be held during the first week in May. Due notice will be given to the Local Hon. Secretaries. Candidates wishing to take an examination in a practical subject in the same year as the theoretical examination, if unsuccessful in the latter, can still proceed to the practical examination, and if they satisfy the examiner or examiners in this, they must present themselves at a supplemental theoretical examination held later in the same year, which, if they pass, entitles them to receive the certificate for the practical examination. A special charge for this supplemental examination is found under fees on page 1650.

2. Practical examinations are held during May, June and July.

3. For both theoretical and practical local examinations, forms of application, duly filled in by the candidate, and accompanied by the examination fee, *must reach the Secretary in Montreal on or before April 1st, 1946.*

4. Certificates will be awarded to successful candidates in both theoretical and practical subjects.

5. These certificates do not entitle the holders to append any letters to their names.

6. The maximum number of marks in each practical and theoretical subject is 100, of which 60-69 is "Pass", 70-79 "Honours"; 80-89 "Distinction", 90-94 "High Distinction", 95-100 "Very High Distinction".

In the event of a candidate obtaining a bare pass or a mark lower than 65, consideration should be given as to the advisability of further study before proceeding to the work of the next grade.

7. No special text-books are prescribed for theoretical examinations, and no particular method or style is specified for practical examinations. For the convenience of teachers and candidates the University publishes, in separate books for each grade, the studies and pieces required for the Pianoforte Examinations, which can be obtained direct from the General Secretary or from various local music dealers.

8. Candidates presenting a study or piece not prescribed by the current syllabus, run a risk of being disqualified.

9. Candidates entering for practical subjects must, in all grades except the three last (Elementary, Primary and Preparatory), work a theory paper of the preceding lower grade before the practical certificate will be released.

10. Only one candidate at a time is allowed to be in the examination room for practical examinations.

11. The accompanist for all examinations, where one is needed, is allowed to be in the examination room only so long as he is accompanying.

12. The examiner's decision is final, and cannot be reconsidered.

13. The possession of certain certificates granted by other institutions may exempt the holder from the necessity of taking the Theoretical part of the Local Examinations. In making application for exemption the holder of such certificates must give explicit information to the General Secretary at least one month before the date of the examination, and be prepared to produce the original certificate, if required.

14. The possession of certain certificates gained in the Local Examinations will entitle the holders to claim exemption from certain parts of the examinations for the Diplomas of Associate and Licentiate in Music, should they at a later date decide to proceed to the higher examinations for those diplomas.

LOCAL CENTRES

The following places have been adopted as centres for public examinations in Music; others will be added as necessity requires, but in all cases the establishment of a centre depends upon a sufficient number of candidates applying. All examinations for Certificates in the Local Grades, as well as some of those for Degrees and Diplomas, are held at these centres:

Amherst.....Hon. Representative: The Rev. H. C. Olsen.
Hon. Secretary: Mrs. Geo. R. Shiers, 35 Robie St.

Assiniboia.....Hon. Representative: The Superintendent of Schools.

Aylsham.....Hon. Representative: B. Dressler, Esq., Principal of the High School.
Hon. Secretary: Mrs. R. S. Valleau, Moose Range, Sask.

Brandon.....Hon. Representative: Principal of Brandon College Institute.

Brockville.....Hon. Representative: Rev. Stanley Kerrison, Frankville, Ont.
Hon. Secretary: A. W. Lucas, Esq., L. Mus. (McGill), Frankville, Ont.

Calgary.....Hon. Representative: A. Calhoun, Esq., City Librarian, Public Library.

Campbellton.....Hon. Secretary: Miss Laura Alford.

Campbell's Bay.....Hon. Representative: Rev. J. L. Enright.
Hon. Secretary: Sister Philippe, St. Joseph's Convent.

Chapeau.....Hon. Representative: Rev. Dean J. Kimpton. St. Joseph's Convent.
Hon. Secretary: St. Joseph's Convent.

Charlottetown.....Hon. Representative: H. H. Shaw, Esq., B.Sc.
Hon. Secretary: Miss E. Lillian McKenzie, Mus.B. (McGill), 235 Euston Street.

Cookshire.....Hon. Representative:
Hon. Secretary: Miss E. J. Ball.

Cranbrook.....Hon. Representative: Principal of the High School.
Hon. Secretary: Mrs. D. Finlayson.

Edmonton.....Hon. Representative: Dean Robert Hardy, University of Alberta.
Hon. Secretary: Mrs. O. J. Walker, L. Mus. (McGill), 11103 Saskatchewan Drive.

Fernie.....Hon. Representative: Sydney Crookes, Esq.
Hon. Secretary: Miss S. E. West.

Fort Qu'Appelle.....Hon. Representative: W. H. Thompson, Esq.

Fredericton.....Hon. Representative: The Very Reverend Spencer C. Gray, The Deanery.
Hon. Secretary: W. J. Smith, Esq., A.R.C.O., 679 Churchill Row.

Glace Bay.....Hon. Representative: The Rev. J. MacDonald.
Hon. Secretary: Mrs. A. Ferguson.

Gladstone.....Hon. Representative: Dr. E. H. Whelpley.
Hon. Secretary: David B. McHardy, Esq., 200 Manderville St., Winnipeg.

Granby.....Hon. Representative: Dr. G. A. Runnells, 35 Dufferin Street.
Hon. Secretary:

Halifax.....Hon. Representative: The Rev. S. H. Prince, University of King's College.
Hon. Secretary: Miss Ada Hoyt, 3 College St.

Indian Head.....Hon. Representative: Dr. F. W. Hart.

Kamloops.....Hon. Representative: Mrs. P. H. McCurrach, B.A.

Kentville.....Hon. Representative: The Rev. W. Fraser Munro.
Hon. Secretary:———————————

Kerrobert.....Hon. Representative: R. L. Hanbidge, Esq., K.C.
Hon. Secretary: Miss Gladys Nault.

Kimberley.....
Hon. Secretary: Mrs. T. A. Martin.

Lethbridge.....Hon. Representative: A. J. Watson, Esq., Supt. of Schools, Central School.
Hon. Secretary: Miss Jennie King, Coaldale, Alta.

Liverpool.....Hon. Representative: The Rev. J. M. C. Wilson.
Hon. Secretary: Miss Evelyn Rieser, L.Mus. (McGill).

Maxville.....Hon. Secretary: Miss Netta McEwen, Box 294.

Melfort.....Hon. Representative: J. N. Gale, Esq., P.O. Box 280.
Hon. Secretary:———————————

Moncton.....Hon. Representative: The Rev. J. A. Ramsay, D.D., The Manse, Alma St.
Hon. Secretary: Miss Marion Murray, 185 Mountain Road.

Moose Jaw.....Hon. Representative: S. R. Stephens, Esq.; City Librarian, Public Library.
Hon. Secretary: Academy of Sion.

Nelson.....Hon. Representative: H. E. Dill, Esq., 418 Mill St.

New Glasgow.....Hon. Representative: W. E. Crummey, High School, Stellarton.
Hon. Secretary: L. N. Miller, Esq., L.Mus. (McGill).

Ottawa.....Hon. Representative:
Hon. Secretary: Miss L. Barrigar, L.Mus. (McGill), 173 Cooper St.

Peterboro.....Hon. Representative: John T. Donaldson, Esq., 223 Crescent St.
Hon. Secretary: F. G. Mann, Esq., 199 London St.

Pictou Academy.....Hon. Representative: G. W. MacKenzie, M.A., B. Paed.
Hon. Secretary: Miss Eva Skinner.

Plattsburgh.....
Saranac Lake.....
Ogdenburg.....
Chazy.....
} Hon. Representative: J. A. McHattie, Esq.

Malone.....Hon. Secretary: Miss Isabelle Douville, 117 East Main Street.

Quebec.....Hon. Representative: Rev. S. Radley-Walters, L.S.T., St. Peter's Church.
Hon. Secretary: Miss Edith Latter, L.Mus. (McGill), 49 Ninth St., Limoilou, P.Q.

Regina.....Hon. Representative: Regina Conservatory of Music.
Hon. Secretary: Mrs. R. H. Johnston, L.Mus. (McGill), Darke Hall.

Revelstoke.....Hon. Representative: A. E. Miller, Esq., Box 129.
Hon. Secretary: Miss Sheila Dickey, Box 132.

River John.....Hon. Secretary: Mrs. Harold Lisson.

Rothesay.....Hon. Secretary: Miss A. V. Davidson, L.Mus. (McGill).

St. John.....Hon. Representative: The Rev. C. Gordon Lawrence, M.A., 50 Orange St.
Hon. Secretary: Miss Eileen Gillis, L.Mus. (McGill), Red Head, P.O.

Saskatoon.....Hon. Representative: W. A. Gilchrist, Esq., Canada Bldg.
Hon. Secretary:———————————

Sherbrooke.....Hon. Representative:
Hon. Secretary: Wright W. Gibson, Esq., M.A., High School.

Stellarton.....Hon. Secretary: L. N. Miller, Esq., L.Mus. (McGill), Box 44.

Sudbury.....Hon. Representative:
Hon. Secretary: Mrs. R. Perreault-Radek, 56 Riverside Drive.

Sutton.....Hon. Representative: The Ven. Archdeacon H. Charters, B.A., L.Th.
Hon. Secretary: Miss Gertrude Gingras.

Sydney Mines.....Hon. Representative:
Hon. Secretary: H. A. Briers, Esq., Box 438.

Sydney.....Hon. Representative: G. G. Campbell, Esq., B.A., Sydney Academy.
Hon. Secretary:

Timmins.....Hon. Representative: The Rev. W. Linder.
Hon. Secretary:

Truro.....Hon. Representative: C. G. Mosher, Esq., M.A., LL.D.
Hon. Secretary: Miss Bertha Dunn, L.Mus. (McGill), 71 Duke St.

Vancouver.....Hon. Secretary: C. E. Findlater, Esq., Fairfield Bldg., 445 Granville Street.

Victoria & Vancouver Island Hon. Secretary: R. H. Cox, Esq., L.Mus. (McGill), 1462 Fort Street.

Winnipeg.....Hon. Representative: John Parton, Esq., 356 Main St.
Acting Secretary: Miss Peggy Morrison, 528 Kingsway.

Wolseley.....Hon. Representative:
Hon. Secretary: Mrs. Anna P. Thomson.

Yorkton.....Hon. Representative: E. A. Crosthwaite, Esq., Principal, Simpson School, Yorkton, Sask.
Hon. Secretary:———————————

FEES FOR LOCAL EXAMINATIONS

1.—Theory of Music (when taken as a Special Subject)

Highest Grade	$ 9.00
Senior Grade	5.50
Intermediate Grade	4.00
Junior Grade	3.00
Elementary Grade	2.00

2.—Practical Subjects

Highest Grade, *including fee for Senior Theory*	$12.00
Senior Grade, *including fee for Intermediate Theory*	10.00
Intermediate Grade, *including fee for Junior Theory*	7.50
Junior Grade, *including fee for Elementary Theory*	6.00
Elementary Grade	3.50
Primary Grade	2.50
Preparatory Grade	1.00
Duet Playing examination covering both entrants	1.50

3.—Supplementary Theoretical Examination

Fee for three highest grades (each paper)	$2.00
Fee for the two lowest grades	1.50

4.—General School Examination

Fee, $20.00 for first hour and $10.00 for each succeeding hour. (One examiner.)

5.—Class Singing Examination

Fee, $10.00 per class. (One examiner.)

LOCAL CENTRE EXAMINATIONS IN THEORETICAL MUSIC

These examinations are divided into five grades, and Certificates in each grade will be awarded to successful candidates.

Highest Grade.—Harmony in four parts, up to chords of the major and minor dominant ninth and secondary sevenths, including the use of suspensions and passing notes (harmonizing of melodies and figured and unfigured bass, the completing of a harmonic sentence from a given pattern); the writing of a short passage introducing specified chords. The candidate will be required to take down from dictation a short and simple melody which will be played three times;

Counterpoint in two parts; Analysis, together with elementary knowledge of form, questions being based upon the candidate's previous study of the pieces given in this year's Highest Grade, List A, Pianoforte Book (a copy of which will be provided for the candidates in the examination room), and the outlines of musical history. The examinations in this grade consist of two papers. One paper deals with Harmony and Counterpoint, and the other with History of Music, and Analysis and Form.

SENIOR GRADE.—More advanced questions on the work specified for the Intermediate Grade. A knowledge of musical ornaments or graces and of syncopated time, analysis of given chords or passages and the harmonization of an easy melody and of an unfigured bass. Candidates will also be required to write an original tune of from four to eight bars and indicate the harmony by figuring and directs; to add a contrasted tune to one given, and to *add* phrase marks. *Care should be taken, in writing the tune, to avoid the interval of an augmented 4th and to obtain a judicious mixture of conjunct and disjunct movement. In harmony questions generally candidates should consider the possibility of introducing the supertonic chord.*

N.B.—Special attention is paid by the examiners to the working of the harmony questions. A definite percentage of marks is required in these questions in order to pass.

INTERMEDIATE GRADE.—A knowledge of the C clefs, the transposition of a given passage, the barring (and pre-fixing of time and key signatures of given passages and (in both original and inverted positions) triads) common chords, chords of the dominant seventh with resolution on the tonic chord and chords of the augmented 6th. In addition to the above, the harmonization by means of simple chords in three or four parts of short phrases with either melody or figured or unfigured bass or both is given. Candidates are required to write a tune of their own of from four to eight bars and add another to it, so as to produce a piece of flowing 2-part writing. They are also required to analyse the chords in a given passage, and point out errors of part-writing or poor chord construction in a given passage.

N.B.—Special attention is paid by the examiners to the working of the harmony questions. A definite percentage of marks is required in these questions in order to pass. (See special note regarding melody and harmony questions under Senior Grade.)

JUNIOR GRADE.—Transposition from treble to bass and vice versa, the more extreme key signatures and scales, marks of expression, including the translation of Foreign terms into English and vice versa, a knowledge of triads, technical names of notes for scale degrees, intervals and their inversion, grouping of incorrectly grouped notes according to the time signature used.

ELEMENTARY GRADE.—The following are the requirements:—A knowledge of staves, G and F clefs, notes, dots, rests, leger lines, time-signatures, key signatures (major and minor), writing scales, the more common marks of expression, easy intervals, and the writing of two simple tunes, each of two bars, on a given pattern; the tunes should have some character. Completing bars with notes or rests.

N.B.—Specimens of examination papers used for all Grades during the last ten years can be obtained from the Secretary of McGill University Conservatorium at 10 cents per copy of each grade.

Special Note:—Leaflets have been specially prepared as a guide on certain points for the use of teachers preparing candidates for the theoretical examinations. These will gladly be sent to anybody interested.

LOCAL CENTRE EXAMINATIONS FOR CANDIDATES IN PRACTICAL SUBJECTS

PIANOFORTE

See requirements and table of marks at the end of this section on Pianoforte regulations.

Official books, containing the pieces required for the Pianoforte Examinations in all the seven grades of the local examinations, can be obtained, either from the Secretary, McGill University Conservatorium of Music, Montreal, or from any music dealer in the Dominion.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

HIGHEST GRADE

Before a certificate can be issued to a successful candidate for this examination the Senior Grade of the local theoretical examinations must have been passed. (*See page 1651.*)

1. *Scales.*

   Major, minor (both forms) and chromatic, in all keys, in similar and contrary motion, at the octave, third, sixth or tenth, with staccato or legato touch, and beginning from either the highest or lowest note, as may be required; major and minor scales also in similar motion in double octaves in all keys.

2. *Arpeggios.*

Common chords, dominant 7ths and diminished 7ths, in all positions at the interval of an octave only, starting on the highest or lowest note with staccato and legato touch.

NOTE:—Scales and arpeggios should be played at as fast a speed as is consistent with clarity and accuracy and without group accentuation.

3. *Ear Tests.*

Candidates must be able to name, either by interval or by note (as they may prefer), any diatonic or chromatic interval above or below any given note which may be struck by the examiner; to say whether a common chord is major or minor, and to recognize the chord of the dominant 7th in its root position when it is struck.

A rhythmical test is also given (which the candidate is required to tap or sing) as well as a melodic test which the candidate must hum, sing, or play on the piano after the examiner.

4. *Reading at Sight.*

Candidates must be prepared to read a test which will be of about the same difficulty as the pieces set for prepared work in the Intermediate Grade.

5. *Prepared Work.*

The whole of either List A or List B published in separate books, and referred to on page 1652, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music, in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*

Questions will be asked on the form, modulations, and marks of expression, etc., found in the pieces. In connection with the questions on form candidates are recommended to read Macpherson's "Form in Music" (published by Joseph Williams).

Senior Grade

Before a certificate can be issued to a successful candidate for this examination the Intermediate Grade of the local theoretical examinations must have been passed. (*See page* 1651.)

1. *Scales.*

   All scales in similar motion through four octaves and contrary motion through two octaves, including chromatic scales, played legato at the rate of about 4 notes to M.M. 120, and played staccato at about M.M. 90, beginning with the highest or lowest note as required and at the octave only. Also all scales in 3rds in similar motion only. All scales must be played forte or piano as required.

2. *Arpeggios.*

   All major and minor common chords through four octaves, also dominant and diminished 7ths, time to be about 4 notes to M.M. 100 played legato and M.M. 72 played staccato. These arpeggios, also to be played in the inversions if required, at about 4 notes to M.M. 72. All arpeggios must begin from the highest or lowest note as required and be played forte and piano.

3. *Ear Tests.*

   Candidates must be able to name diatonic or chromatic intervals within the limits of an octave above or below any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. Candidates will be required to sing or hum *any one* of three notes played together, and also a short phrase played by the examiner.

4. *Reading at Sight.*

   The music will not be more difficult than the pieces set for the Junior Grade.

5 *Prepared Work.*

   The whole of either List A or List B published in separate books, and referred to on page 1652, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. When there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*

   Questions will be asked as to the key, time and meaning of signs used in the pieces prepared by the candidate. In addition an intelligent musical understanding of the pieces is expected such as simple elements of construction.

INTERMEDIATE GRADE

Before a certificate can be issued to a successful candidate for this examination, the Junior Grade of the local theoretical examinations must have been passed. (*See page 1651.*)

1. *Scales.*

   Major and minor (both forms) in all keys, also chromatic scales through our octaves, each hand separately and both together in similar motion, beginning either on the lowest or highest note legato and staccato, speed to be about 4 notes to M.M. 92 legato and M.M. 72 staccato, piano and forte.

2. *Arpeggios.*

   All major and minor common chords, with inversions, through four octaves, separately and together, beginning from either the highest or lowest note.

3. *Ear Tests.*

   To name by interval or note (as candidates prefer), with either middle C, G or F as the given note, any note, diatonic or chromatic, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. Candidates will be required to hum or sing a short phrase played by the examiner.

4. *Reading at Sight.*

   A test consisting of music of about the same difficulty as the pieces set for the Elementary Grade.

5. *Prepared Work.*

   The whole of either List A or List B, published together in one book, and referred to on page 1652, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*

   Questions will be asked as to the time, key and meaning of signs used in the pieces prepared by the candidates.

Junior Grade

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. (*See page 1652.*)

1. *Scales.*

   Major and minor (both forms, harmonic and melodic, but the latter only hands separately) and chromatic scales in similar motion only, in all keys through two octaves, beginning from either highest or lowest note and played forte or piano with separate hands and both hands as required, at a speed of about 4 notes to each M.M. 80.

2. *Arpeggios.*

   Extended arpeggios of common chords in all major and minor keys in root position through two octaves, each hand separately and together.

3. *Ear Tests.*

   To name by interval or note (as candidates prefer) with middle C, G, or F as given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner.

4. *Reading at Sight.*

   A test is set of which the difficulty will be similar to that of the pieces in the Primary Grade.

5. *Prepared Work.*

   The whole of either List A or List B, published together in one book and referred to on page 1652, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*

   Questions will be asked as to the various marks of expression and as to the key and time of the various prepared pieces.

Elementary Grade

Candidates are not required to take any written theoretical examination before presenting themselves for this examination.

1. *Scales.*
   The major scales of C, G, D, A, F, B flat and E flat, and their relative minors (harmonic form only), with separate hands and both hands through two octaves, beginning with highest or lowest note, also piano or forte, as required, at a speed of about two notes to each M.M. 88.
2. *Arpeggios.*
   Major and minor, the same keys as the above scales, each hand separately, through two octaves, in root form only.
3. *Ear Tests.*
   With any note chosen by the examiner about the middle of the keyboard as the lowest note, to name the major or minor 3rd, perfect 5th and perfect octave from that note.
4. *Reading at Sight.*
   Two easy tests will be given, one for the right hand alone and one for the left hand alone.
5. *Prepared Work.*
   The whole of either List A or List B, published together in one book, and referred to on page 1652, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

6. *Questions.*
   Easy questions will be asked on the marks of expression, key and time of the pieces prepared, also as to the values of the notes and rests and the signatures.

Primary Grade

Candidates are not required to take any written theoretical examination before presenting themselves for this examination.

1. *Scales.*
   Major scales, C, G, D, F and B flat, and their respective relative minors, in harmonic form only, with one hand at a time through two octaves, beginning with the lowest note at a speed of (a) one note to each M.M. 100, (b) two notes to each M.M. 100.
2. *Arpeggios.*
   Major form only, 2 octaves, starting from the lowest note, hands separately, in root form only in keys of C, G, D, F and B flat.

3. *Prepared Work.*

The whole of either List A or List B, published together in one book, and referred to on page 1652, must be submitted.

As the music in the Grade Books is selected from many different editions and is not printed by the University, no responsibility can be taken for instructions as to performance of grace notes, etc., or indications of the form of the pieces printed in the different editions. These do not necessarily represent the views of the Faculty of Music; in fact, the printed instructions should occasionally be ignored. Where there is uncertainty as to the exact course to adopt, teachers are asked to communicate with the Secretary.

4. *Questions.*

A few questions will be asked on the notes and rests found in the prepared pieces.

Marks

The following system is adopted:—

	Primary	Elementary Junior and Intermediate	Senior and Highest
Scales	13	13	15
Arpeggios	13	13	15
Accuracy as regards Notes and Rests and correct system of Fingering	14	14	..
Tempo (including in the higher grades, if piece demands it, Tempo Rubato)	10	10	..
Expression (including in the higher grades use of pedals)	10	10	12
Touch, Rhythm, Phrasing and Accent and Interpretation	12	12	28
Reading at sight	..	12	12
Ear tests	..	10	10
Questions	6	6	8
Proper position of hands and arms	12	..	..
Movement of fingers	10	..	..
	100	100	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Very High Distinction 95-100.

Preparatory Grade

This is now the earliest examination which it is possible to take in the Local Centre Examinations. There is no theoretical examination.

The candidates will be required to play:—

(1) Short exercises, for separate hands, to illustrate legato playing and phrasing.

(2) Four short pieces for both hands.

(3) Scales C.G.F., major form only, hands separately, two octaves.

(4) Ear tests.

This examination is designed to meet the needs of beginners studying privately as well as those taking the first year course in Pianoforte Class Instruction in schools.

All the music, with specimen ear tests, is published by McGill University and can be obtained in one volume, price 15c.

MARKS

Scales	15
Exercises	15
Pieces	40
Ear tests	30
	100

Leaflets showing alternative requirements based on the Oxford Piano Course and the Kammerer (1st and 2nd years) may be obtained from the Secretary.

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Very High Distinction 95-100.

EXAMINATION IN PIANOFORTE DUET PLAYING

In order to encourage the mutual making of music and to stimulate the interest of young performers, examinations are held in pianoforte duet playing in the Elementary Grade. The requirements are:—

(1) The playing of two or three simple duets of Elementary Grade difficulty.

(2) The major scales of G, F and D played as duets through two octaves. The players will play together one hand at a time (starting two octaves apart) and two hands together (starting one octave apart).

(3) Ear tests. Simple rhythmical tests will be given. For instance, a tune of one bar will be played and the candidates will tap (together) the rhythm. The examiner will then play a short and easy passage having one chord to a beat and the candidates will be required to clap the beats during the playing. (The test will be played over first.) Candidates will also be required to hum or sing a passage of about 6 notes, equal in length, which will be played over three times on the pianoforte.

(4) Questions on the notes and rests will be asked, also on the times and keys of the prepared pieces.

(5) Sight reading. Candidates will be required to read a very simple duet, one hand only to each part.

Fee (covering both entrants) $1.50. Only one application (with names, etc., of both candidates) need be sent in.

MARKS FOR DUET PLAYING EXAMINATION

Scales	20
Accuracy as regards Notes and Rests and correct system of fingering; sight reading	30
Touch, Rhythm, Phrasing, Accent and Expression	20
Ear tests	20
Questions	10
	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Very High Distinction 95-100.

VIOLIN

HIGHEST GRADE

Before a certificate can be issued to a successful candidate for this examination the Senior Grade of the local theoretical examinations must have been passed. (*See page 1651.*)

1. *Scales* (from memory).

   All major and both forms of all minor scales (three octaves). The chromatic scales of C (two octaves) beginning on the G string and E beginning on the D string. Slurred and detached bowing.

2. *Arpeggios.*

   In all major and minor keys through three octaves, one note to a bow, and slurred (one bow ascending and one descending).

3. *Ear Tests.*

   Candidates must be able to name, either by interval or by note (as they may prefer), any diatonic or chromatic intervals which may be struck by the examiner above or below the given note; to be able to say whether the common chord is major or minor, and to recognize a chord of the dominant 7th in its root-position when it is struck (on the pianoforte). A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing or play on the violin after the examiner.

4. *Reading at Sight.*

Candidates must be able to read a test which will be of about the same difficulty as the pieces set in the Intermediate Grade.

5. *Prepared Work.*

(a) Three Studies:—Candidates may choose any one of Kreutzer's Etudes between Nos. 23 and 42 inclusive, and also any one of Rode's Caprices and also any one of Fiorillo's Etudes.

(b) Concerto No. 19.....Kreutzer
or Concerto in E minor.....Nardini
or La Folia.....Correlli-Léonard
or Sonata in E minor.....Veracini

(c) Sixth Partita in E major, for violin alone.....Bach
(First movement only)

6. *Questions.*

Questions will be asked on the form, modulation, and marks of expression in the prepared work.

Senior Grade

Before a certificate can be issued to a successful candidate for this examination, the Intermediate Grade of the local theoretical examinations must have been passed. *(See page 1651.)*

1. *Scales* (from memory).

B flat major and G major and
B flat minor and G minor (both forms) through three octaves. Slurred and detached bowing.

2. *Arpeggios.*

Three octaves in the keys of B flat major and B flat minor and G major and minor.

(a) One note to each bow.

(b) Three notes slurred to each bow.

(c) Six notes slurred to each bow.

3. *Ear Tests.*

Candidates must be able to name diatonic or chromatic intervals within the limits of an octave, above or below any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. A rhythmical test is also given (which the candidate will be required to tap or sing) as well as a melodic test which the candidate must hum, sing, or play on the violin after examiner.

4. *Reading at Sight.*

The music given will not be of greater difficulty than the pieces set for the Junior Grade.

5. *Prepared Work.*

Studies.

No. 18, Thirty Special Studies, Op. 36 ..... MAZAS
No. 10 ..... KREUTZER
No. 15 ..... FIORILLO

Pieces.

Concerto, No. 23, First or Last Movement ..... VIOTTI
or Sonata in G minor ..... TARTINI
or any one of Six Sonatas ..... HANDEL

6. *Questions.*

Questions will be asked as to the key, time, and meanings of signs used in the prepared work.

INTERMEDIATE GRADE

Before a certificate can be issued to a successful candidate for this examination the Junior Grade of the local theoretical examinations must be passed (*see page 1651*).

1. *Scales* (from memory). See footnote on page 1663.

G major and G minor and A major and A minor through 3 octaves. Minor scales to be played in both forms. Detached and 3 notes to a bow.

2. *Arpeggios.*

Three octaves in the following keys:—G major and minor, A major and minor.

(a) One note to each bow.

(b) Three notes slurred to each bow.

Interchange of position must be clearly shown in playing any of these arpeggios.

3. *Reading at Sight.*

A test consisting of music of about the same difficulty as pieces set for the Elementary Grade.

4. *Ear Tests.*

To name by interval or note (as candidates prefer), with either middle C, G or F as the given note, any note, diatonic or chromatic, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate will be required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the violin after the examiner.

5. *Prepared Work.*

Studies.

No. 7 of Thirty Special Studies, Op. 36 ..... MAZAS
Nos. 21 and 29, Op. 20 ..... KAYSER

Pieces.

Second Concertino, Op. 14 (published by Schott) ..... R. ORTMANS
or Concertino, Op. 31, 1st or Last Movement ..... SITT
or Concerto No. 3, Op. 12, 1st Movement ..... SEITZ
or Concerto No. 4, 1st Movement ..... SEITZ
or Concerto in A minor ..... VIVALDI

6. *Questions.*

Questions will be asked as to the time and the meaning of signs used in the pieces prepared.

JUNIOR GRADE

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. *(See page 1652.)*

1. *Scales* (from memory). See footnote.

Two octaves of the following:—

C major and minor, 2nd position. B flat major and minor in 2nd position. D major and minor in 3rd position and in 4th position. Minor scales to be played in both forms.

(a) One note to each bow.
(b) Two notes slurred to each bow.

2. *Arpeggios.*

Two octaves in the following keys: G major and G minor, D major and D minor.

(a) One note to each bow.

(b) Three notes slurred to each bow.

Interchange of position must be clearly shown in playing any of these arpeggios.

3. *Ear Tests.*

To name by interval or note (as candidates prefer) with middle C, G, or F as the given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate will be required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the violin after the examiner.

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*N.B.—Ritter's Violin Scale Book may be used in preparation for this grade as well as those below it.

4. *Reading at Sight.*

An easy test is given about the difficulty of the pieces in the Primary Grade.

5. *Prepared Work.*

Studies.

Nos. 9, 12, Op. 20 ..... KAYSER
No. 42, Op. 32, Book 3 ..... SITT

Pieces.

First or last movement, Sonatina No. 3 ..... R. HOFMAN
(Carl Fischer)
or Allegro entusiastico ..... PUGNANI-MOFFAT
(Carl Fischer)
or Fragment of a Sonata ..... DANCLA
(Carl Fischer)
or Melody ..... LULLY-SPALDING
(Carl Fischer)

6. *Questions.*

Questions will be asked as to the various marks of expression and as to the key and the time of the prepared pieces.

ELEMENTARY GRADE

No written examination in theory need be passed by candidates before entering for this examination.

1. *Scales* (from memory). See footnote on page 1663.
G, A and B (major and minor) in two octaves, 4 notes to each bow.

2. *Arpeggios.*

G major and G minor in first position only, through two octaves.

(1) One note to the bow.

(2) Three notes to the bow.
(Minor Scales in melodic form only.)

3. *Ear Tests.*

To name by interval or note (as candidates prefer) with middle C, C, G or F as the given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner.

4. *Reading at Sight.*

A very easy piece is given.

5. *Prepared Work.*

Studies.

No. 1, Op. 20 (played with four different bowings).....KAYSER
No. 7, Op. 20.....KAYSER
Concertino in first position, Op. 93.....HANS SITT
First or last movement.
or Concertino, No. 5—Op. 22.....SEITZ
or Concertino in B minor, Op. 35 (in first position).....RIEDING
or any two of "Four Easy Pieces".....DUNCAN-RUBBRA
(Oxford Univ. Press)

6. *Questions.*

Questions will be asked on notes, rests, marks of expression, time of pieces and studies, and on key signatures.

PRIMARY GRADE

No written examination in theory need be passed by candidates before entering for this examination.

1. *Scales* (from memory). See footnote on page 1663.

Scales in G major and minor, and A major and minor in two octaves, also D major and minor and F major in one octave, one note to each bow.
(Minor Scales in melodic form only.)

2. *Prepared Work.*

Studies.

Violin Method, Op. 6, Part 2, No. 13.....SEVCIK
or Exercise No. 2, Op. 74, with different bowings.....WOHLFARTH

Pieces.

Theme with Variations, Op. 57.....PAPINI
or Prière, Op. 22, No. 4 (Bosworth Ed.).....RIEDING
or Mazurka.....HERBERT KINGSLEY
or Marche Militaire.....ADAM CARSE
(Published by Joseph Williams)
or Valsette, Op. 33, No. 2.....JOSEPH BLOCH
or A Bed-time Song.....GORDON JACOB

3. *Questions.*

Questions will be asked on the notes and rests found in the prepared pieces.

4. *Ear Tests.*

With any note chosen by the examiner about the middle of the key-board as the lower note, to distinguish between the major or minor 3rd, perfect 5th, and perfect octave from that note.

Marks

In all the Grades with the exception of the Primary, the following system of marking is adopted for Violin, Viola and Violoncello:—

Posture	5
Scales and Arpeggios	12
Technical Studies and Exercises	10
Bowing	8
Accuracy of Notes and Rests	8
Tone Production	10
Intonation, including Tuning	8
Rhythm, Phrasing, Accent and Gradation of Tone	10
Tempo (including in higher grades, if piece demands it, Tempo Rubato)	5
Questions	6
Ear Tests	10
Sight Reading	8
Total	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Very High Distinction 95-100.

In the Primary Grade, Sight Reading is not required; the marks allotted to this are distributed as follows:—

Accuracy of Notes and Rests	10 instead of 8
Rhythm, Phrasing, Accent and Gradation of Tone	14 instead of 10
Strictness of Time and Choice of Tempo	7 instead of 5

In every other respect the marking is as in above schedule.

VIOLONCELLO

Highest Grade

Before a certificate can be issued to a successful candidate for this examination the Senior Grade of the local theoretical examinations must have been passed. (*See page 1651.*)

1. *Scales.*

   Major and minor scales in all keys through three octaves (minor scales in melodic form only).

2. *Technical Studies.*

   Nos. 2 and 21 Exercises for Violoncello.....J. L. Duport
   (a) Four notes slurred to each bow.
   (b) Spiccato, one note to each bow.

3. *Ear Tests.*

Candidates must be able to name either by interval or by note (as they may prefer), any diatonic or chromatic interval which may be struck by the examiner above or below the given note; to say whether the common chord is major or minor, and to recognize a chord of the dominant 7th in its root position, when it is struck (on the pianoforte). A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing or play on the 'cello after the examiner.

4. *Reading at Sight.*

Candidates must be able to read a test, which will be about the same difficulty as the pieces set in the Intermediate Grade.

5. *Prepared Work.*

Nos. 32, 35 and 36 from Progressive Studies for the Violoncello.....WHITEHOUSE

or

Study No. 7 (Litolff Ed.).....J. L. DUPORT

and

Study Nos. 1, 4 and 6 (Berners Ed. No. 102a).....A. H. EARNSHAW

Pieces.

Andante from Sonata in A minor.....BOELLMANN

Allegro appassionato.....C. SAINT-SAENS

or

Sonata in G major (Ed. Simrock).....J. B. BREVAL

6. *Questions.*

Questions will be asked on the form, modulation, and marks of expression in the prepared work.

SENIOR GRADE

Before a certificate can be issued to a successful candidate for this examination, the Intermediate Grade local theoretical examinations must have been passed. (*See page 1651.*)

1. *Scales* (from memory).

All major and minor scales compass two octaves (minor scales in melodic form only).

(a) Detached

(b) Slurred, 2, 4 or 8 notes to a bow.

2. *Technical Studies.*

Studies Nos. 5 and 7 (Berners Ed. No. 102a).....A. H. EARNSHAW

or

Any Two Studies.....WILLEM WILLERKE

3. *Ear Tests.*

Candidates must be able to name diatonic or chromatic intervals, within the limits of an octave, above or below, any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the 'cello after the examiner.

4. *Reading at Sight.*

The music given will be about the same difficulty as the pieces set for Junior Grade.

5. *Prepared Work.*

Nos. 28, 29, 30 and 31 from Progressive Studies for the Violoncello.....WHITEHOUSE
Any two of "Six Airs arranged for 'cello".....J. BARBIROLLI
(Oxford University Press)
Berceuse, Op. 14 (published by Fromont).....DUNKLER
Berceuse (published by Hawkes & Son, London).....W. ALCOCK
Elegie.....G. FAURÉ

6. *Questions.*

Questions will be asked on the form, modulation and marks of expression in the pieces prepared.

INTERMEDIATE GRADE

Before a certificate can be issued to a successful candidate for this examination the Junior Grade of the local theoretical examinations must have been passed. *(See page 1651.)*

1. *Scales* (from memory).

In all the major and minor keys through two octaves.
(a) Detached.
(b) Slured, two notes to a bow.

2. *Ear Tests.*

To name by interval or note (as candidates prefer) with either middle C, G or F as the given note, any note, diatonic or chromatic, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the 'cello after the examiner.

3. *Reading at Sight.*

A test consisting of music about the same difficulty as the pieces set for the Elementary Grade.

4. *Prepared Work.*

Studies.

Any two advanced studies.....DOTZAUER
Nos. 1 and 2 (Litolff Edition, No. 1520).....MERK
No. 9—Exercises (Litolff).....DUPORT
or Nos. 19, 20, 22, 24, 25 and 27 from Progressive Studies for the Violoncello.....WHITEHOUSE

Pieces.

Melodie, Op. 14 (Augener Edition No. 7709).....W. H. SQUIRE
Aubade Humoresque, Op. 39, No. 2.....ROBERT C MARTIN
(Published by Leduc, Paris)
L'Abeille.....SCHUBERT
or any two of 12 Easy Pieces, Op. 4.....ARNOLD TROWELL
(Schott)

5. *Questions.*

Questions will be asked as to the time, key, and meaning of signs used in the pieces prepared by the candidates.

JUNIOR GRADE

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. (*See page 1652.*)

1. *Scales* (from memory).

The major scales of E, A, D, A flat, E flat and B flat, and the minor scales of C sharp, F sharp, B, F, C, and G, through two octaves.

2. *Ear Tests.*

To name by interval or note (as candidates prefer) with middle C, G or F as the given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the 'cello after the examiner.

3. *Reading at Sight.*

An easy test will be given.

4. *Prepared Work.*

Studies.

Nos. 39 and 51. Studies for the Young Cellist.....L. FEUILLARD
Nos. 33 and 34 from 113 Studies.....DOTZAUER
or Nos. 1, 3, 6 and 9 from Progressive Studies for the Violoncello.....WHITEHOUSE

Pieces.

Gavotte—Op. 5.....W. H. SQUIRE
(Augener Edition No. 7704b)
Meditation.....G. PAPIN
(Ed. Leduc)

5. *Questions.*

Questions will be asked as to the various marks of expression and as to the key and time of the pieces prepared.

ELEMENTARY GRADE

No written examination in theory need have been passed by candidates before entering for this examination.

1. *Scales* (from memory).

Major scales of C, G, and D; minor scales of A, E, and B, through two octaves.

2. *Ear Tests.*

To name by interval or note (as candidates prefer) with middle C, G or F as the given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner.

3. *Reading at Sight.*

A very easy piece will be given.

4. *Prepared Work.*

Studies.

Nos. 11 and 43. Studies for the Young Cellist.....L. FEUILLARD
Nos. 1 and 2 from 113 Studies.....DOTZAUER
or Nos. 11, 12, 16, and 18 from Progressive Studies for the Violoncello.....WHITEHOUSE

Pieces.

Intermezzo—Op. 5.....W. H. SQUIRE
(Augener Edition No. 7704a.)
Reverie.....DUNKLER

5. *Questions.*

Easy questions will be asked as to the notes, rests, marks of expression and time of pieces and studies; also questions on key signatures.

VIOLA, DOUBLE-BASS, HARP AND WIND INSTRUMENTS

In each of these there are only four Grades. The requirements for each Grade can be obtained on application to the Secretary of the Examining Board.

ORGAN

Highest Grade

Before a certificate can be issued to a successful candidate for this examination the Senior Grade of the local theoretical examinations must have been passed. (*See page 1651.*)

1. *Scales.*

All major and minor (both forms), also chromatic scales played at varying degrees of speed.

(a) Pedals only, for one and two octaves.

(b) Manuals only, hands together at 8ve, 3rd, and 6th for three octaves.

(c) One hand and pedals combined, in similar and contrary motion from the octave or unison for one and two octaves.

2. *Technical Studies in Pedal Playing.*

Part II, Section II, Nos. 20-59 inclusive.....Nilson
Part II, Section III, Nos. 8-28 inclusive.....Nilson
(Published by Schirmer)

3. *Ear Tests.*

Candidates must be able to name, either by interval or by note (as they may prefer), any diatonic or chromatic interval which may be struck by the examiner above or below the given note, to say whether the common chord is major or minor and to recognize a chord of the dominant 7th in its root position when it is struck. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the organ after the examiner.

4. *Reading at Sight.*

Candidates must be able to read a test which will be of about the same difficulty as the pieces set in the Intermediate Grade.

5. *Prepared Work.* One of the following groups:—

Chorale on Ein Feste Burg.....BACH
(Novello Book 18)

Postlude and Trio, Nos. 2 and 3 of 6 Preludes and Postludes, 1st set Op. 101.....STANFORD
(Stainer & Bell)

Alleluia.—Final.....BOSSI
(Durand)

or

Trumpet Voluntary in D.....PURCELL
(Ashdown—Modern Recital Pieces for Organ, Vol. 2)

Prelude (only) from Prelude and Fugue in F minor.....BACH
(Novello Book VI or Peters)

Choral Improvisation, "By the Waters of Babylon", Op. 65 No. 12.....KARG-ELERT

or

Nun Komm Der Heiden Heiland.....BACH
(A due bass)
(Book 17 Novello edition, page 49)

On hearing the first cuckoo in Spring (arr. Eric Fenby).....DELIUS
(Oxford University Press)

Toccata in D minor from Fantasia & Toccata.....STANFORD
(Stainer & Bell)

6. *Questions.*

Questions will be asked on the form and modulations, and marks of expression, in the pieces prepared; also on chapters 3, 4, 5 and 6 of A. E. Hull's book on Organ Playing (published by Augener).

SENIOR GRADE

Before a certificate can be issued to a successful candidate for this examination, the Intermediate Grade of the local theoretical examinations must have been passed. (*See page 1651.*)

1. *Scales.*

All major and minor (both forms), and chromatic scales.

(a) Pedals only. C, D flat, D, E flat, E & F for two octaves.

(b) Manuals only, hands together for three octaves in similar and contrary motion. (Harmonic minor only in contrary motion.)

2. *Technical Exercises.*

Technical Studies in Pedal Playing.....NILSON
Part II, Section II, Nos. 1-9 inclusive.
Part II, Section III, Nos. 1-7 inclusive.
(Published by Schirmer)

3. *Ear* Tests.

Candidates must be able to name diatonic or chromatic intervals within the limits of an octave above or below any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the organ after the examiner.

4. *Reading at Sight.*

The music given will not be of greater difficulty than the pieces set for the Junior Grade.

5. *Prepared Work.* One of the following groups:—

Presto from Concerto No. 5 in F.....HANDEL
(Borreman ed. Paris)

2nd Movement 5th Sonata.....MENDELSSOHN
(Any edition)

In Paradisium.....DANIEL-LESUR
(Alphonse Leduc)

or

Evening Hymn on a Ground.....PURCELL
(Cramer)

Prelude and Fugue in C major.....BACH
(Novello, Bk. III, or Peters)

Paean (No. 5 of 5 short pieces)—(O.U.P.).....WHITLOCK

6. *Questions.*

Questions will be asked as to the keys through which the music passes and on marks of expression, etc., found in the pieces; also on chapters 4, 5 and 6 of A. E. Hull's book on Organ Playing. (Pub. by Augener.)

INTERMEDIATE GRADE

Before a certificate can be issued to a successful candidate for this examination the Junior Grade of the local theoretical examinations must have been passed. *(See page 1651.)*

1. *Scales.*

(a) All major, minor and chromatic scales through three octaves (hands together) on manuals, in similar and contrary motion and starting on either highest or lowest note.

(b) Pedals: All major and minor and chromatic scales through one octave.

2. *Technical Studies in Pedal Playing* (Pub. Schirmer).....NILSON
Part II, Section I.

3. *Ear Tests.*

To name by interval or note (as candidates prefer), with either middle C, G or F as the given note, any other note, diatonic or chromatic, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the organ after the examiner.

4. *Reading at Sight.*

A test consisting of music of about the same difficulty as the pianoforte pieces set for the Elementary Grade.

5. *Prepared Work.* One of the following groups:—

Prelude and Fugue in E minor.....BACH
(Novello, Bk. II, or Peters)
The Holly and the Ivy.....P. C. BUCK
(Year Book Press)
or
Prelude and Fugue in G major.....MENDELSSOHN
(Any edition)
A Folk Tune.....WHITLOCK
(O.U.P., Five Short Pieces)
or

March from Dramma Musica (transcribed by H. Grace, Oxford Univ. Press).....BACH
Prelude "Rhosymedre".....VAUGHAN-WILLIAMS

6. *Questions.*

Questions will be asked as to the time and meaning of signs used in the pieces prepared, also on chapters 4 and 5 of A. E. Hull's book on Organ Playing (Published by Augener).

JUNIOR GRADE

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. (*See page 1652.*)

1. *Scales.*

C, G, D, E, E flat and F in both major and harmonic minor.

(a) Manuals only (hands separately and together) through two octaves in similar motion.

(b) Pedals only. Upper or lower octave, as required by the Examiner.

2. *Technical Studies.*

"The Organ" (Published by Novello).....W. ALCOCK
Pedal Exercises, pages 29 and 32, also pages 49 and 50.
Manual Exercises, pages 40 to 43 inclusive.
Manuals and Pedals, pages 67 to 70 (Nos. 150 to 153 inclusive).

3. *Ear Tests.*

To name by interval or note (as candidates prefer), with middle C, G or F as the given note, any note of the diatonic major scale, struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the organ after the examiner.

4. *Reading at Sight.*

An easy test will be given about the difficulty of the pieces in the Primary Grade. (Pianoforte.)

5. *Prepared Work.* One of the following:—

Any one Prelude and Fugue of Book I.....BACH
(Novello)
or
Choral Prelude, "Herzlich thut mich verlangen".....BACH
or
Choral Prelude, "Puer natus in Bethlehem".....BACH
(Novello, Bk. XV and Book XVIII)
and
Any one of A Little Organ Book.
(Year Book Press)
or
Largo (only) "Largo, Allegro, Aria and 2 Variations"
MICHAEL FESTING
(Ed. Ball—Novello)
or
No. 2 from "Three Preludes on Melodies from the Genevan Psalter".....CHARLES WOOD
(Stainer & Bell)

6. *Questions.*

Questions will be asked on notes, rests, marks of expression and time of pieces and studies; also questions on key signatures.

Marks

The following system of marking is adopted in all grades:

Scales and Arpeggios	10
Pedal Exercises	10
Ear Tests	10
Questions	10
Sight Reading	15
Registration	15
Phrasing, legato, musicianship, rhythm	30
Total	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Very High Distinction 95-100.

SINGING

Highest Grade

Before a certificate can be issued to a successful candidate for this grade the Senior Grade of the local theoretical examination must have been passed (*See page 1651.*)

1. *Technical Studies.*

   See the special set of technical exercises, scales and arpeggios referred to on page 1690. Candidates must be prepared to sing all these from memory, without accompaniment, in several keys varying according to the class of voice using vowel sounds only.

2. *Ear Tests.*

   Candidates must be able to name, by interval or note, any diatonic or chromatic interval above or below a certain given note, within the limits of an octave; also to say whether a common chord is major or minor and to distinguish a dominant 7th chord from a common chord. A rhythmical test is also given (which the candidate will be required to tap or sing), as well as a melodic test which the candidate must hum, sing, or play on the piano after the examiner.

3. *Reading at Sight.*

   One of the tests must be sung either to one vowel throughout, or to solfeggi and the other tests to the words.

4. *Prepared Work.*

   Studies.

   Soprano or Tenor—Any two from No. 34 to the end.

   First Series of Solfeggios.....Vittorio Ricci

   Alto or Bass—Any two from No. 26 to the end.

   Second Series of Solfeggios.....Vittorio Ricci

Medium Voices—Any two from No. 24 to the end.
Third Series of 45 Solfeggios.....VITTORIO RICCI

or

Any two, from 30 to the end, of 50 Lessons.....CONCONE

Pieces.

NOTE.—*Candidates may transpose their songs to the extent of a tone lower or higher.*

(a) A RECITATIVE and ARIA from any ORATORIO or OPERA. Students will find the following books useful for making suitable selections:—

HANDEL—Twelve songs from the Oratorios, published in separate books for each voice by Novello & Co.

MENDELSSOHN—Solo music from "Elijah," published in separate albums for each voice by Novello & Co.

ROYAL OPERATIC ALBUMS—Published separately for each class of voice by Boosey & Co.

SACRED SONGS—Published separately for each class of voice in the "Imperial Edition," by Boosey & Co. The numbers in this edition are as follows:—Soprano 31, Contralto 42, Tenor 44, Baritone and Bass 32, *or* any Recitative and Aria from the Oxford Series of BACH and HANDEL ARIAS.

(Oxford University Press)

(b) Two songs of contrasted character to be chosen from any two of the following composers:—BRAHMS, SCHUBERT, SCHUMANN, PARRY, STANFORD, SCOTT, IRELAND, SCARLATTI, RACHMANINOFF, HOLST, VAUGHAN-WILLIAMS, PETER WARLOCK, STRAUSS, JOSEPH MARX, DELIUS. (One modern song should be chosen.)

(c) Candidates in each class of voice must also be prepared to sing one song of their own selection and one Folk Song from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS. (Novello.)

(The Folk Song to be sung unaccompanied.)

5. *Questions.*

Questions will be asked on the style, modulations, marks of expression, occurring in the pieces prepared and the candidate must also be ready to answer elementary questions on Physiology of the Voice.

The attention of candidates is drawn to the system of marking and directions printed on page 1690.

SENIOR GRADE

Before a certificate can be issued to a successful candidate for this examination, the Intermediate Grade of the local theoretical examinations must have been passed. (*See page 1651.*)

1. *Technical Studies.*

See the special set of technical exercises, scales and arpeggios referred to on page 1690. Candidates must be prepared to sing from memory all those arranged for this particular Grade, without accompaniment, in several keys, using vowel sounds only.

2. *Ear Tests*

Candidates must be able to name diatonic or chromatic intervals within the limits of an octave above or below any note struck by the examiner. Either the name and kind of interval or the name of the note may be given in answer. A rhythmical test is also given (which the candidate is required to tap or sing), as well as a melodic test which the candidate must hum, sing or play on the piano after the examiner.

3 *Reading at Sight.*

This test may be sung to one vowel sound throughout, or to solfeggi. A specimen is printed in the set of technical exercises.

4. *Prepared Work.*

Studies

Soprano or Tenor—Any three from No. 16 to No. 33.
First Series of 50 Solfeggios.....Vittorio Ricci
Alto or Bass—Any three from No. 13 to No. 23.
Second Series of 40 Solfeggios.....Vittorio Ricci
Medium Voices—Any three from No. 10 to No. 23.
Third Series of 45 Solfeggios.....Vittorio Ricci

or

Any three (from No. 15 to the end) of 25 Lessons.....Concone
Contralto, Baritone and Bass.

or

Any three (from 15 to 40) of 40 Lessons.....Concone

or

Any three (No. 10 to end) of 42 Vocalises (Part I).....Panseron

or

Any three (No. 20 to 50) of 50 Lessons.....Concone

or

Any three (from No. 21 to the end) of 30 Vocalises
(Ditson Edition).....Sanders

Pieces.

(a) One of the easier Arias from either an Oratorio or Opera contained in the works mentioned in the Highest Grade.

(b) Two songs *of contrasted character* from the following lists:—
(*Candidates may transpose their songs to the extent of a tone lower or higher.*)

For Soprano, Mezzo-Soprano, Contralto

The Bells of San Marie ..... JOHN IRELAND
My True Love Hath My Heart ..... JOHN IRELAND
Lullaby ..... CYRIL SCOTT
The Angel ..... WAGNER
The Quiet Night (Nacht und Traüme) ..... SCHUBERT
Summer Night ..... ARMSTRONG GIBBS
Dream in the Twilight (Op. 29, No. 1) ..... STRAUSS
All Souls' Day (Op. 10, No. 8) ..... STRAUSS
The Heart Worships ..... HOLST
Devon Maid ..... FRANK BRIDGE
Christmas Eve at Sea ..... MALCOLM DAVIDSON
To the Queen of Heaven ..... DUNHILL
Sleep ..... PETER WARLOCK
The Water Mill ..... VAUGHAN-WILLIAMS
Silent Noon ..... VAUGHAN-WILLIAMS
Bluebells from the Clearings ..... ERNEST WALKER
Ferry Ahoy ..... BREWER
Roseen'du ..... BAINTON
A Sea Dirge ..... DUNHILL
It Was a Lover and His Lass ..... MORLEY
Immortality ..... CYRIL SCOTT
A collection of 50 Irish Melodies ..... C. V. STANFORD
Invocation (Soprano) ..... BRYCESON TREHARNE
Songs of Innocence ..... HAROLD DARKE
(Stainer & Bell)

Soprano

Alleluia ..... MOZART
The Violet ..... MOZART
Se tu m'ami ..... PERGOLESI
Nina ..... PERGOLESI
May Night (Mainacht) ..... BRAHMS
My Love is Bright (Meine Liebe ist Grün) ..... BRAHMS
The Question (Der Neugierige) ..... SCHUBERT
Faith is Spring (Fruhlingsglaube) ..... SCHUBERT
Après un Rêve ..... G. FAURÉ
Now sleeps the Crimson Petal ..... ROGER QUILTER
The Crying of Water ..... CAMPBELL-TIPTON

Mezzo-Soprano

When I am laid in Earth ..... PURCELL
Care Selve ..... HANDEL
Oh, Sleep why dost thou leave me ..... HANDEL

So clear thine Eyes (Dein Blaues Auge)..... Brahms
Margaret's Song (Gretchen am Spinnrade)..... Schubert
The Walnut Tree (Der Nussbaum)..... Schumann
The Trout (Die Forelle)..... Schubert
Amarille..... Caccini
On the Steppe ..... Gretchaninoff
Why (Warum)..... Tschaikowsky
Dedication (Zuveignung)..... Strauss
Silver..... Armstrong-Gibbs

Contralto

From Grief I cannot measure (Aus meinen grossen Schmerzen).... Franz
Sapphische Ode..... Brahms
Death and the Maiden (Tod und das madchen)..... Schubert
Thou art repose (Du bist die Ruh)..... Schubert
Biblical Songs (any one)..... Dvorak
Dreams..... Wagner
Where corals lie..... Elgar
Cloths of Heaven..... Dunhill
I got me Flowers..... Vaughan-Williams

For Tenor, Baritone, Bass

Song Cycle, "The Wind Among the Reeds" (any one)..... Dunhill
(Pub. by Stainer & Bell)

Silent Noon..... Vaughan-Williams
Summer Night..... Armstrong Gibbs
Quiet Night (Nacht und Traüme)..... Schubert
Come Away, Death..... T. Arne
Verrath..... Brahms
Christmas Eve at Sea..... Malcolm Davidson
Dead, Long Dead (from the "Maud" Cycle)..... A. Somervell
When I Am Laid in Earth (tenor only)..... Purcell
The Water Mill..... Vaughan-Williams
Ethiopia saluting the colours (baritones and basses only)..... C. Wood
Invictus..... Armstrong Gibbs
By a Bier Side..... Armstrong Gibbs
My Heart Now is Merry (Phoebus & Pan)..... Bach
O Mistress Mine..... Peter Warlock
Dream in the Twilight (Op. 29, No. 1)..... Strauss
A Farewell (tenor)..... Bryceson Treharne
Montarrat (baritone)..... Bryceson Treharne

At Night (baritone).....Bryceson Treharne
All Soul's Day (Op. 10, No. 8).....Strauss
A Shropshire Lad (any one).....A. Somervell
English Lyrics, Third Set (any one).....C. H. Parry
A Collection of 50 Irish Melodies.....C. V. Stanford
Eleanore.....ColeridgeTaylor
O Vision Entrancing.....Goring Thomas
I Have Twelve Oxen.....John Ireland

(c) Candidates in each class of voice must also be prepared to sing one song of their own selection, not included in the above lists, and one Folk Song from "A Selection of Collected Folk Songs," C. Sharp and Vaughan-Williams (Novello).

5. *Questions.*

Questions will be asked as to the keys through which the music passes and as to the marks of direction and expression found in the pieces and studies prepared.

The attention of candidates is drawn to the system of marking and directions given on page 1690.

Intermediate Grade

Before a certificate can be issued to a successful candidate for this examination the Junior Grade of the local theoretical examinations must have been passed. *(See page 1651.)*

1. *Technical Studies.*

See the special set of technical exercises, scales and arpeggios referred to on page 1690. Candidates must sing from memory, with or without accompaniment (at the discretion of the examiners), one or all of the exercises arranged for this Grade in the various keys most suited to the particular voice.

2. *Ear Tests.*

Candidates must be able to name by interval or note (as they prefer) with either middle C, G or F as the given note, any note, diatonic or chromatic, struck by the examiner above or below it, within the limits of an octave. The choice of the key note is left to the examiner. A rhythmical test is also given (which the candidates will be required to tap or sing), as well as a melodic test which the candidates must hum sing or play on the piano after the examiner.

3. *Reading at Sight,*

This test may be either sung to one vowel sound throughout, or to solfeggi. A specimen will be found printed in the special set of technical exercises.

4. *Prepared Work.*

Studies.

Soprano or Tenor—Two from Nos. 1 to 15.

First Series of 50 Solfeggios.....Vittorio Ricci

Any two from 1 to 19 of 50 Lessons.....Concone

Alto or Bass—Two from No. 1 to No. 12.

Second Series of 40 Solfeggios.....Vittorio Ricci

Medium Voices—Two from No. 1 to No. 10.

Third Series of 45 Solfeggios.....Vittorio Ricci

or

Any two from 1 to 15 of 25 Lessons.....Concone

Contralto, Baritone and Bass.

Any two from 1 to 9 inclusive of 42 Vocalises.....Panseron
(Part I.)

Any two from 1 to 15 of 40 Lessons.....Concone

Two songs of contrasted character, selected from one of the following lists, and also two Folk Songs from "A Selection of Collected Folk songs," C. Sharp and Vaughan-Williams (Novello), and one song of candidate's own choice.

Candidates may transpose their songs to the extent of a tone lower or higher.

FOR SOPRANO:—

Five Miniature Ballads (any three as one)....W. Y. Hurlestone

Where the Bee Sucks. (Pub. by Boosey).....Arne

Bel Amie
A Word of Thine. (Pub. by Schirmer) } as one.....J. S. Ford

Cradle Song.....Grieg

I Heard a Piper Piping.....Peter Warlock

Love's Philosophy.....Roger Quilter

To Daffodils.....Roger Quilter

A Child Asleep.....Elgar

Blackbird Song.....Cyril Scott

Second Song Cycle (any two of the four as one).....Perrin
(Published by Stainer & Bell, London)

A Widow-Bird Sat Mourning.....Bryceson Treharne

Solveig's Song.....Grieg

My Mother Bids Me.....Haydn

I love Thee (Ich liebe dich).....Beethoven

Pastorale (arr. A.L.).....Veracini

The month of May (Im wunderschonen Monat Mai)..Schumann

Roses from the East (aus den ostlichen Rosen).....Schumann

Maiden's Song (Madchenlied).....Brahms

A legend.....Tschaikowski

When I was Seventeen.....Swedish Folk Song

Yarmouth Fair.....Peter Warlock

Sweet and Twenty.....Peter Warlock

FOR MEZZO-SOPRANO:—

My True Love Hath My Heart.....PARRY
I Heard a Piper Piping.....NORMAN PETERKIN
Slow, Horses, Slow.....ARMSTRONG GIBBS
Ring Out, Wild Bells.....C. L. BAINTON
Twelve Oxen.....PETER WARLOCK
The Jocund Dance.....ROGER QUILTER
Song of the Palanquin Bearers.....MARTIN SHAW
As I Walked Forth and Infant Joy.....HUBERT FOSS
Five Miniature Ballads (any three).....W. Y. HURLESTONE
Shepherd Love.....H. CLAXTON
12 Songs, Op. 35 (any one) (Novello).....SCHUMANN
Spirit's Song.....HAYDN
La Vision.....SCHUMANN
What Tho' I Trace.....HANDEL
Voi che Sapete (Nozze di Figaro).....MOZART
Child, What Sings the Morning.....A. MALLINSON
In the time of Roses.....REICHARDT
Goodnight (Gutte Nacht).....FRANZ
Woodland Journey (Wahlfahrt).....FRANZ
Maria Lullaby.....REGER
A Bird's Cry.....SINDING
Plaisir d'Amour.....MARTINI
Blue as her Eyes.....WALTER WATTS
Devon Maid.....BRIDGE
The Merry Month of May.....STANFORD
Sigh no more Ladies.....FREDERICK KEEL

FOR CONTRALTO:—

10 Canzonets (any one) (Novello).....HAYDN
Pieta Signor.....STRADELLA
One Summer Night.....GRIEG
Evening Song.....SCHUMANN
Pull Away Home.....GORDON JACOB
The King's Way.....ELGAR
Evening Hymn.....PURCELL
L'Heure Exquise.....POLDOWSKI
Hame.....WALFORD DAVIES
Morning Hymn.....HENSCHEL
As I Walked Forth and Infant Joy.....HUBERT FOSS
The Sea Wrack.....HAMILTON HARTY
The Hero.....SCHUMANN
Uphill.....BRYCESON TREHARNE
Where Corals Lie.....ELGAR
The Leaves and the Wind.....LEONI

Nature's Praise (Die Ehre Gottes) ..... Beethoven
She never told her Love ..... Haydn
Request (Bitte) ..... Franz
Homeless (In der Fremde) ..... Schumann
The Lotus Flower ..... Schumann
The Bells of San Marie ..... Ireland
Lilacs ..... Rachmaninoff
Linden Lea ..... Vaughan-Williams

FOR TENOR:—

I attempt from Love's Sickness to Fly ..... Purcell
Milkmaid Song ..... Stanford
Waft Her, Angels ..... Handel
Sweet and Twenty ..... Peter Warlock
Sigh No More, Ladies ..... Aiken
Minnelied ..... Brahms
Cavatina, from "Magic Flute" ..... Mozart
Eleanore ..... Coleridge-Taylor
La Charmante Marguerite ..... Old French
And So I Made a Vilanelle ..... Cyril Scott
Over the Western Sea ..... Mallinson
Four Songs from the Cherry Gardens ..... Sterndale Bennett

FOR BARITONE:—

I Attempt from Love's Sickness to Fly ..... Purcell
As I Walked Forth and Infant Joy ..... Hubert Foss
Linden Lea ..... Vaughan-Williams
Easter Snow ..... arr. by Stanford
The Red Fuchsia Tree ..... Roger Quilter
The Palatine's Daughter ..... Norman Peterkin
An Old Carol ..... Roger Quilter
Morning Hymn ..... Henschel
Yarmouth Fair ..... Peter Warlock
The Wanderer ..... Schubert
No Word from Thee ..... Tschaikowsky
Four by the Clock (Cavalier's Song) ..... Mallinson
Pipes of Pan ..... Elgar
O Cessate di Piagarmi ..... Scarlatti
Canzone (L'Addio) ..... Mozart
Weep Ye No More ..... Roger Quilter
Comme Raggio di Sol ..... Caldara
Mariage des Roses ..... Cesar Franck
The Swan Bent Low ..... MacDowell
Lungi dal caro bene ..... Secchi

FOR BASS:—

Droop Not, Young Lover (Golden Treasury of Songs)....HANDEL
Vittoria.....CARISSIMI
Serenade.....TSCHAIKOWSKY
Sing Ho, or the Horned Owl (Pub. by Schirmer).....J. S. FORD
Easter Snow.....arr. by STANFORD
The Faithless Shepherdess.....ROGER QUILTER
Wiegenlied.....BRAHMS
Bois Epais.....LULLY
Through the Ivory Gate.....PARRY
Sands o' Dee.....CLAY

5. *Questions.*

Questions will be asked as to the various marks of expression and as to the time and key of the pieces and studies prepared.

The attention of candidates is drawn to the system of marking and directions given on page 1690.

JUNIOR GRADE

Before a certificate can be issued to a successful candidate for this examination the Elementary Grade of the local theoretical examinations must have been passed. *(See page 1652.)*

1. *Technical Studies.*

See the special set of technical exercises, scales and arpeggios referred to on page 1690.

Those arranged for this particular Grade must be sung from memory, with or without accompaniment, at the discretion of the examiner, in those keys which are most suited to the individual voice.

2. *Ear Tests.*

To name by interval or note (as candidates prefer), with middle C, G or F as the lower note, any note of the diatonic major scale struck by the examiner above or below it, within the limits of an octave. The choice of the key-note is left to the examiner. A rhythmical test is also given (which the candidate will be required to tap or sing), as well as a melodic test which the candidate must hum, sing or play on the piano after the examiner.

3. *Reading at Sight.*

A specimen will be found printed in the special set of technical exercises.

4. *Prepared Work.*

Studies.

(For all voices.)

Any three from No. 13 to the end.

24 Little Solfeggios for Beginners, Appendix.....VITTORIO RICCI

Pieces.

Candidates in each class of voice must, *in addition* to their selections from the following lists, be prepared to sing a song of their own selection.

Any two of a contrasted character from one of the following lists:—

Candidates may transpose their songs to the extent of a tone lower or higher.

FOR SOPRANO, MEZZO-SOPRANO, CONTRALTO:—

Folk Song from Haensel and Gretel.....HUMPERDINCK
Where the Bee Sucks (Key F).....ARNE
Thine Eyes Still Shine for Me.....PARRY
Holly Song.....HOWELLS
Tyrley Tyrlow.....WARLOCK
Pastorale.....arr. A. L.
Snow Flakes.....MALLINSON
Cradle Song, in G flat.....BRAHMS
To Music (Golden Treasury, Vol. I).....SCHUBERT
The Poet's Song.....PARRY
The Little Red Lark (Key F).....IRISH
On Wings of Song.....MENDELSSOHN
What If I Never Speed (from 50 Dowland Songs, Bk. II, High Voice).....DOWLAND
(Stainer & Bell)
The Fiddler of Dooney.....R. MILFORD
The Gipsy Girl.....R. MILFORD
This Joyful Eastertide.....arr. A. SOMERVELL
Oh! Bother, Sang the Thrush.....LIZA LEHMANN
Slumber, Dear Maid (Largo).....HANDEL
Weep You No More, Sad Fountains (from 50 Dowland Songs, Low Voice, Bk. II).....DOWLAND
(Stainer & Bell)
Cradle Song.....BYRD
Nachklang (Tears), Op. 59, No. 4.....BRAHMS
Sapphic Ode.....BRAHMS
Scheiden und Meiden (Parting).....BRAHMS
Standchen (Serenade).....BRAHMS

May Song ..... BEETHOVEN
Lullaby ..... MOZART
Have you seen but a whyte lillie grow ..... ANON
Sunday (Sonntag) ..... BRAHMS
Cradle Song (Wiegenlied) ..... BRAHMS
Hedge-Roses (Heiden-Roslein) ..... SCHUBERT
The First Primrose ..... GRIEG
The Cuckoo ..... LEHMANN
The First Rose ..... LEHMANN
When Icicles hang by the Wall ..... VAUGHAN-WILLIAMS
My Love's an Arbutus ..... STANFORD
Come, Gentle Night ..... ELGAR
Eyes of Night ..... GRAHAM PEEL
O, Willow, Willow (Folk Song) ..... arr. WHITTAKER
Early one morning ..... HEALEY WILLAN
Folk Songs, from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

FOR TENOR:—

And Shall Trelawney Die? ..... GORDON SLATER
(Oxford University Press)
The Wind Mill ..... COLIN TAYLOR
When as the Rye ..... P. WARLOCK
Laughing Song ..... GORDON JACOB
The Talisman ..... SCHUMANN
Caro mio ben ..... GIORDANI
Farewell, Dearest Gretchen ..... GADE
Vieille Chanson (In the Woods) (Key F) ..... BIZET
Serenade ..... SCHUBERT
A Last Year's Rose ..... R. QUILTER
My Lovely Celia—Old English air ..... arr. by LANE WILSON
Tell Me, My Heart (E flat) ..... BISHOP
Folk Songs, from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

FOR BARITONE:—

The Self-Banished ..... BLOW
Fairest Isle (Golden Treasury) ..... PURCELL
Song of the Imprisoned Huntsman ..... SCHUBERT
Slumber, Dear Maid (Largo) ..... HANDEL
The Ploughboy ..... WM. SHIELD
(Oxford University Press)
O, Sweet Flower ..... COOPER
or
There is a Lady ..... FORD
Published together (Oxford Choral Songs)

The Jolly Carter.....arr. by E. J. MOERAN
(Oxford Press)
Love Me or Not.....SECCHI
In Summer Time on Bredon.....GRAHAM PEEL
A Lover's Garland.....C. H. PARRY
Souvenir.....CESAR FRANCK
Folk Songs, from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

FOR BASS:—

The Sandman.....BRAHMS
When Two That Love are Parted.....SECCHI
For the Mountains Shall Depart (from Elijah)..MENDELSSOHN
An Old English Love Song.....LANE WILSON
The Fisher Maiden (Key F).....SCHUBERT
Sun of the Sleepless.....SCHUMANN
Folk Songs, from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello).

5. *Questions.*

Questions will be asked as to the various marks of expression and as to the key and time of the pieces prepared.

The attention of candidates is drawn to the system of marking and directions given on page 1690.

ELEMENTARY GRADE

No written examination in theory need have been passed by candidates before entering for this examination.

1. *Technical Studies.*

See special set of technical exercises, scales and arpeggios referred to on page 1690.

Candidates must be able to sing with or without accompaniment (at the discretion of the examiner) in the various keys suited to the individual voice, all those exercises arranged for this particular Grade.

2. *Ear Tests.*

With any note chosen by the examiner about the middle of the keyboard as the lower note, to distinguish between the major or minor 3rd, perfect 5th and perfect octave from that note.

3. *Reading at Sight.*

See specimen on the same page as technical exercises.

4. *Prepared Work.*

Studies.

FOR SOPRANO AND MEZZO-SOPRANO:—

Any three from No. 1 to No. 12.

24 Little Solfeggios from Beginner's Appendix..... VITTORIO RICCI

Pieces (which may be transposed to the extent of a tone higher or lower).

A. Any two of the following:—

Songs for the Young. (Augener Edition No. 8931).

Popular Nursery Songs, arranged by..... BRAHMS
(Augener Edition No. 8886)

Six Children's Songs, Op. 59..... ARENSKY
(Published by Breitkopf & Haertel)

Six Little Songs (Augener Edition No. 8952)..... WECKERLIN

Seven Children's Songs (Augener Edition No. 8833).... GRIEG

It was a Lover and his Lass..... MORLEY

The Sandman..... BRAHMS

Six Songs (Joseph Williams)..... W. H. HADOW

Who is Sylvia..... SCHUBERT

Elizabethan Love Songs (Boosey & Co.) arranged..... F. KEEL

B. Any one of the following Folk Songs, from "A Selection of Collected Folk Songs," C. SHARP and VAUGHAN-WILLIAMS (Novello): "The Fox," "The Holly and the Ivy," "As I Walked Through the Meadows," "Dashing Away With the Smoothing Iron," "I Will Give My Love an Apple," "I'm Seventeen Come Sunday," "William Taylor."

5. *Questions.*

Questions will be asked on notes, rests, marks of expression and time of pieces and studies, also on key signatures, etc.

The attention of candidates is drawn to the system of marking and directions given below.

Marks

The following system of markings will be adopted:—

	Elementary and Junior Grades	Intermediate Senior and Highest Grades
Posture and Facial Expression	8	8
Intonation	8	10
Accuracy as to Notes and Rests	10	..
Breath Control, Production of Voice	10	12
Blending of Registers	6	6
Attack	8	8
Diction	8	10
Expression, Phrasing, etc.	8	10
Reading at Sight	10	8
Ear Tests	8	10
Scales and Arpeggios	10	10
Questions	6	8
Total	100	100

Pass Marks 60-69. Honours 70-79. Distinction 80-89. High Distinction 90-94. Very High Distinction 95-100.

Directions to Candidates

1. Candidates must bring an accompanist, who, however, must retire from the examination room directly the prepared pieces which need accompaniment have been rendered.

2. A complete set of the technical exercises, scales and arpeggios required for all the five grades can be obtained at a cost of 25c, post free, from the General Secretary at the McGill University Conservatorium of Music, Montreal.

3. Candidates should be provided with two copies of each of the studies and pieces.

4. In all grades, songs can be sung by candidates *with either the original words or a translation.*

GENERAL SCHOOL EXAMINATION IN INSTRUMENTAL OR VOCAL INSTRUCTION

On application to the General Secretary, McGill University Conservatorium of Music, Montreal, a general school examination can be arranged for any time during the year. The expense must, of course,

vary according to the length of the railway journey the Examiner has to take. Due notice should, therefore, be given to the Secretary, so that he may be able to arrange the visit of the Examiner at a time when he is somewhere in the district, when the fee will be $20.00 for the first hour and $10.00 for each succeeding hour. Not less than one hour can be arranged for. It is understood that no individual reports will be sent in on the work submitted but only a general report made on each branch of music. (Class singing, referred to hereafter, may be taken as one branch of this examination.)

INSTRUMENTAL ENSEMBLE EXAMINATION

Classes of strings or wind *or* strings *and* wind combined may be entered.

Examinations are also held in:

PIANOFORTE CLASS WORK

CLASS SINGING EXAMINATION

This examination is not necessarily confined to an examination at a school. Any teacher may enter a class for examination. A short general report will be rendered to the person who enters the class for examination, and the details of the report will be given on the following lines:—

Accuracy as to Notes, Rests, etc.
Maintenance of Pitch.
Balancing of Parts and Groupings of Voices.
Articulation and Pronunciation.
Quality of Tone.
Expression and Conception of the works performed.
Sight Singing.
*Performance of Vocal Exercises.

Requirements

1. The class must sing the vocal exercises prescribed, each group of the voices singing them separately in the keys best suited to the voices.*

2. At least two short compositions of different character and not in unison must have been previously prepared.

3. Sight Singing from the staff notation.

Three short tests of varying difficulty will be given.

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*These exercises can be obtained on separate sheets from the Secretary, McGill University Conservatorium of Music, price 25c. per dozen, post free, on receipt of remittance.

REGULATIONS FOR THE DEGREE OF DOCTOR OF MUSIC

Bachelors of Music of McGill University, after a lapse of a period of seven years from the time of taking the degree of Bachelor of Music, may proceed to the Degree of Doctor of Music (Mus.D.). Candidates must present:

1. A composition scored for full orchestra in the form of a symphony, symphonic poem or tone poem occupying not less than thirty minutes in performance;

or

2. A composition such as an opera (not light opera), oratorio or cantata. In the event of a work under section 2 being offered, the first number must be an introductory orchestral movement in the form of a concert overture; the work must contain some eight part vocal writing and fugal treatment and must be scored for a full orchestra.

The Candidate must submit with the exercise a Declaration, signed by himself, that the work is his own unaided composition. The University may, if it elects to do so, order the candidate to give a public performance of this original and unaided composition, when approved by the examiners, in some public building connected with the University. In addition, an examination in the higher forms of composition is necessary, together with a critical knowledge of the full scores of certain prescribed works.

Graduates in music of other Universities can, on payment of the necessary fees, be admitted "ad eundem" to the Degree of Mus.B., if they wish to proceed to the further degree of Mus.D., provided they secure permission to do so from the Dean of the Faculty of Graduate Studies and Research. The period of seven years referred to above will be counted from the date on which they received the degree of Bachelor of Music from their own University.

EXAMINATION REQUIREMENTS FOR DEGREE OF DOCTOR OF MUSIC

Harmony up to eight parts.
Counterpoint up to eight parts (strict and free).
Instrumentation.
Fugue up to five parts.
History of Music.
Form and Analysis.

(Latter based on knowledge of Beethoven's nine symphonies, Brahms' first and fourth symphonies, Strauss' Till Eulenspiegel, Op. 28, either Bach's Mass in B minor or Beethoven's Mass in D Op. 123, and Mozart's Magic Flute, or Beethoven's Fidelio, Walton's Viola Concerto, Sibelius' Pohjola's daughter, and Brahms' Academic Overture (Op. 81).

McGILL UNIVERSITY

MONTREAL

FACULTY OF GRADUATE STUDIES AND RESEARCH

1947 - 1948

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McGILL UNIVERSITY

FACULTY OF GRADUATE STUDIES AND RESEARCH

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L., LL.D.

Dean of the Faculty of Graduate Studies and Research.....David L. Thomson, M.A. Ph D., F.R.S.C.

Secretary of the Faculty of Graduate Studies and Research.....John Hughes, M.A.

Comptroller and Executive Assistant to the Principal.....S. H. Dobell, D.S.O.

Bursar.....W. Bentley, C.G.A.

Registrar.....T. H. Matthews, M.A.

A complete list of the teaching staff of the University, including the Faculty of Graduate Studies and Research, is printed as a separate announcement, which may be obtained from the Registrar's Office.

COMMITTEE ON RESEARCH

Dean D. L. Thomson, Chairman

Professor E. R. Adair
Professor T. H. Clark
Professor H. G. Files
Professor C. B. Purves
Professor H. Jasper
Professor L. C. Raymond
Professor B. S. Keirstead
Professor H. E. Hoff

MEMBERS OF THE FACULTY

PROFESSOR D. L. THOMSON (Biochemistry)—Dean.
PROFESSOR E. R. ADAIR (History)
PROFESSOR N. J. BERRILL (Zoology)
PROFESSOR J. S. L. BROWNE (Medicine)
PROFESSOR T. W. M. CAMERON (Parasitology)
PROFESSOR T. H. CLARK (Geology)
PROFESSOR C. H. CARRUTHERS (Classics)
PROFESSOR W. V. CONE (Neurology)
PROFESSOR J. I. COOPER (History)
PROFESSOR J. G. COULSON (Plant Pathology)
PROFESSOR E. W. CRAMPTON (Nutrition)
PROFESSOR C. A. DAWSON (Sociology)
PROFESSOR W. A. DELONG (Agricultural Chemistry)
PROFESSOR G. LYMAN DUFF (Pathology)
PROFESSOR E. M. DUPORTE (Entomology)
PROFESSOR H. G. FILES (English)
PROFESSOR J. S. FOSTER (Physics)
PROFESSOR J. E. GILL (Geological Sciences)
PROFESSOR A. H. S. GILLSON (Mathematics)
PROFESSOR R. D. H. HEARD (Biochemistry)
PROFESSOR H. E. HOFF (Physiology)
PROFESSOR F. S. HOWES (Electrical Engineering)
PROFESSOR J. HUGHES (Education)
PROFESSOR R. E. JAMIESON (Civil Engineering)
PROFESSOR H. JASPER (Neurology)
PROFESSOR B. S. KEIRSTEAD (Economics and Political Science)
PROFESSOR C. E. KELLOGG (Psychology)
PROFESSOR G. H. KIMBLE (Geography)
PROFESSOR J. E. LATTIMER (Agricultural Economics)
PROFESSOR J. E. L. LAUNAY (French)
PROFESSOR F. LAVIOLETTE (Sociology)
PROFESSOR C. P. LEBLOND (Anatomy)
PROFESSOR J. U. MACEWAN (Metallurgy)

Professor D. W. Mackenzie, Jr. (Experimental Surgery)
Professor R. D. Maclennan (Philosophy)
Professor R. B. MacLeod (Psychology)
Professor O. Maass (Chemistry)
Professor E. G. D. Murray (Bacteriology)
Professor H. R. Murray (Horticulture)
Professor R. V. V. Nicholls (Chemistry)
Professor A. S. Noad (English)
Professor F. F. Osborne (Geological Sciences)
Professor W. Penfield (Neurology)
Professor J. B. Phillips (Chemical Engineering)
Professor C. B. Purves (Chemistry)
Professor L. C. Raymond (Agronomy)
Professor C. A. Robb (Mechanical Engineering)
Professor A. N. Shaw (Physics)
Professor F. Smith (Bacteriology)
Professor R. L. Stehle (Pharmacology)
Professor E. H. Venning (Medicine)
Professor P. R. Wallace (Mathematics)
Professor F. Watkins (Political Science)
Professor C. A. Winkler (Chemistry)

RESEARCH FELLOWS

(1946-47)

Moritz Michaelis, Ph.D. (Wurtzburg)

Research Fellow in Agricultural Chemistry

Hector Mortimer, M.B., Ch.B. (Aberdeen), F.R.C.S. (Ed.)

Research Fellow in Endocrinology

RESEARCH ASSOCIATES

(1946-47)

Edrita G. Fried, Ph.D. (Vienna)

Research Associate in Psychiatry

Ernest W. Guptill, Ph.D.

Research Associate in Physics

Louis Johnson, B.Sc., M.D., C.M.

Research Associate in Medicine

Catherine F. C. Macpherson, B.Sc. (Mount Allison), M.Sc. (Dalhousie)

Research Associate in Bacteriology

Maurice Morton, B.Sc., Ph.D.

Research Associate in Chemistry

Frances L. Selye, M.D., C.M.

Research Associate in Medicine

GENERAL STATEMENT

1. The Faculty of Graduate Studies and Research directs and controls all courses leading to higher degrees and recommends candidates for these degrees.

2. The members of the Faculty are appointed annually by the University Committee on Research (see page 1805) from among those members of the staff who are most active in research or in the training of graduate students. Under the University Statutes this Committee is responsible, jointly with the Graduate Faculty, for organizing and co-ordinating programmes and courses of research. The Dean of the Faculty is Chairman of the Committee.

ADMISSION

3. Advanced courses of instruction are offered to students who are graduates of any University of recognized standing, and who have at least second class honours, or the equivalent of at least second class honours as granted by McGill University, in the subject in which they desire to take their major work. In the particular case of students proceeding to an M.A. degree in Education, distinction in the general course will be accepted as a qualification for admission. Admission to these advanced courses does not in itself imply candidacy for a higher degree.

4. The attention of applicants for admission to the Faculty is directed to the Graduate Record Examination (437 West 59th Street, New York City 19). This examination is held under the auspices of the Carnegie Foundation for the Advancement of Teaching and of the graduate schools of a number of universities; it consists of a relatively advanced test in the candidate's specialty, and a general test of his attainments in the several basic fields of knowledge, for which no special preparation is required or recommended. It is offered at many centres, including Montreal, several times a year; the entire examination occupies some eight hours, and the total fee does not exceed $5.00. Applicants for admission to the Faculty are not required to take this examination, but those who have done so should submit their records therein; these will receive consideration along with other evidence of the candidate's admissibility. This credential is of especial importance in the case of applicants whose education has been interrupted, or has been obtained at institutions which are not on the list approved by the Association of American Universities, or has not led directly towards graduate study in the subject selected. In such cases the Department has the right to refuse to consider applications which do not include a report from the Graduate Record Examination or some similar test; some Departments require such reports of all applicants. High standing in this examination will not by itself guarantee admission.

CLASSES OF STUDENTS

5. (a) Those admitted to the Faculty as regular students studying for a higher degree are termed "graduate students."

(b) Those qualified students who are permitted to take one or more courses in the Graduate Faculty, without intention of proceeding to a degree, are termed "partial students of the Graduate Faculty." In the same category are included students carrying on research in McGill laboratories, without intention of proceeding to a degree. For fees see Section 20(a).

(c) Those students whose academic degrees and standing entitle them to admission to the Graduate Faculty, but who are not sufficiently prepared to undertake graduate study in the subject selected, may with the permission of the Dean and the Department concerned be permitted to take a "qualifying year" of further undergraduate studies. Qualifying students are registered in the Graduate Faculty, but not as candidates for a degree; for registration procedure, see Section 6 (b) and (c); for fees, see Section 20 (b). Completion of the work of the qualifying year does not automatically entitle the student to proceed towards a higher degree. Students who are ineligible for a qualifying year may apply to the appropriate undergraduate Faculty for admission as regular or partial students, and seek admission to the Graduate Faculty at a later date.

APPLICATION AND REGISTRATION

6. (a) Applications for admission should be made in triplicate on special printed forms which may be obtained at the Dean's office. Applicants who are not McGill graduates must submit two certified copies of their complete academic record, and are advised to ask one or two instructors familiar with their work to send letters of recommendation to the Dean or to the Department concerned. A passport-type photograph should also be supplied. The application forms, duly signed, should reach the Dean's office as early as possible and in no case later than October 1st, 1947, after which date a late fee of $5.00 will be charged. If the application is approved by the Dean and the Department concerned, one copy of the form will be returned to the applicant.

(b) Approved candidates must consult the Department or Departments in which they intend to study, with regard to choice of courses and subject of investigation. Formal application for permission to attend the courses selected, and for approval of the subject of investigation, must then be made in triplicate on special Registration Forms obtainable from the Dean's office. Language examinations (Section 52) should be entered on these forms, if required. These forms require the signature of the candidate, of the Chairman or Chairmen of the Departments concerned, and of the Professor appointed to act as director of the candidate's research; they should be filed in the Dean's office as early as possible, and at the latest

by October 1st. Candidates should in any case be prepared to attend the regular courses of instruction, which begin on October 1st.

(c) The registration forms will be scrutinized by the Dean and the Committee on Research, and if approval is given one copy will be returned to the candidate, who must then present it without delay at the Registrar's office. The student will not be given credit for attendance until he does so. Candidates must register in this way, and pay their fees not later than October 25th; otherwise the prescribed penalty for late registration and late payment of fees will be enforced.

(d) Candidates whose courses extend over more than one year must register at the Dean's office and at the Registrar's office, as above, at the commencement of each year of their course; if they have not so registered at the beginning of the academic year, they are not eligible to receive their degrees at the following Spring Convocation.

(e) Candidates who have completed their courses and their residence but have not yet completed their theses must register at the offices of both the Dean and the Registrar, and pay a registration fee of $10, at the beginning of the session in which they present their theses; unless this is done, the thesis can not be examined and the degree can not be awarded (see Section 13).

DEGREES

7. Graduate students may proceed to one or other of the following degrees: Master of Arts (M.A.), Master of Science (M.Sc.), Master of Engineering (M.Eng.), Master of Commerce (M.Com.), Master of Civil Law (M.C.L.), Doctor of Philosophy (Ph.D.), Doctor of Civil Law (D.C.L.), Doctor of Music (Mus.D.).

COURSES AT MACDONALD COLLEGE

8. (a) Graduate students who are taking the major part of their work at Macdonald College may go into residence there and may take, when required, other graduate courses given at the University.

(b) Students wishing to reside in Macdonald College should send in their application for accommodation to the Registrar, Macdonald College, Que., as soon as possible.

(c) Any fees in connection with courses taken at Macdonald College are payable to the Bursar of Macdonald College.

FELLOWSHIPS, SCHOLARSHIPS AND MEDALS

9. (a) Details of Fellowships, Scholarships, Bursaries, Medals and Loan Funds available for graduate students will be found in the Announcement of Scholarships, Bursaries, Prizes and Loan Funds, obtainable from the Registrar.

The following Graduate Fellowships and Scholarships are offered at McGill University to graduates of other approved institutions:

The Arthur C. Tagge Fellowship of $1000, in the Humanities and Social Sciences.

The Cominco Fellowship of $750 for research on metals, chemicals, or fertilizers.

The Philip Carpenter Fellowship in Zoology.

The T. Sterry Hunt Scholarship of $600, in Chemistry and Chemical Engineering, for holders of a Master's or other higher degree.

The Inco Scholarships of $500 in Chemical Engineering, Mining, Metallurgy, or Geology.

The C.I.L. Fellowships of $750, in Chemistry (British subjects).

The Shell Oil Fellowship of $750 in Chemistry, Mechanical Engineering, Geology, or Physics.

The H. L. Blachford Scholarship of $750 in Organic Chemistry.

The Gottesman ($800), Brown ($1000), Sylvania ($1000), and Shawinigan ($750) Fellowships tenable in the Division of Industrial and Cellulose Chemistry.

The Bronfman Fellowships of $1200 in Economics and Commerce.

The Alexander Mackenzie Fellowship of $600 in Political Science.

The B. J. Harrington Bursary of $150 in Mining.

The John Bonsall Porter Scholarship of $200 in Civil, Mechanical or Electrical Engineering.

The Sir William Dawson Fellowship of $600 in Mining or Metallurgy.

The James Douglas Fellowship of $550 in Mining and Metallurgy.

The LeRoy Memorial Fellowship of $500 in Geology.

The Adams Scholarship of $300 in Geology.

The John McCrae Fellowship of $800 in Experimental Surgery.

The James Douglas Fellowship in Pathology.

The H. W. Molson Fellowship of not less than $1000 for Cancer Research.

Fellowships in Neurology and Neurosurgery.

In most cases application should be made to the Dean of the Graduate Faculty prior to May 1st. Details of these awards, and of awards offered by other sources but tenable at McGill, are given in the Scholarships Announcement.

(b) In several Departments graduate students are eligible for demonstratorships and instructorships. Information concerning these may be obtained from the Chairman of the Department concerned.

FEES

The University reserves the right to change any fee without notice.

10. (a) For degree of M.A. (non-science subjects), M. Com., and M.C.L.

First Year Students	$147.00
Any subsequent year of resident study, approved by the Department	25.00

(b) For degree of M.A. (Science subjects involving laboratory work), M.Sc., and M.Eng.

First Year Students	$167.00
Any subsequent year of resident study, approved by the Department	25.00
Caution levy, Chemistry students	7.00

(c) For degree of Ph.D. (non-science subjects)

First Year Students	$147.00
Second Year Students	132.00
Third Year Students	132.00
Any subsequent year of resident study, approved by the Department	25.00

(d) For degree of Ph.D. (Science subjects involving laboratory work)

First Year Students	$167.00
Second Year Students	157.00
Third Year Students	157.00
Any subsequent year of resident study, approved by the Department	25.00
Caution levy, Chemistry students	7.00

(e) A student permitted to count the year or years of study for the Master's degree as the first year of the Ph.D. course (Section 45) registers as a Second Year Ph.D. student and pays fees accordingly.

(f) Additional fee for a degree conferred *in absentia*... 10.00

11. The above fees are inclusive, and cover tuition, graduation, the use of laboratories and libraries, the health service and athletic privileges, and membership in the Graduate Students' Association. Additional fees are however charged as set forth below, for special and supplemental examinations, for the re-examination of revised theses, for the repetition of uncompleted courses, and for late registration, etc. Any student taking a lecture course or doing laboratory work, or receiving regular guidance or consultation from any member of the staff, is considered to be in residence. He must register and pay fees as above. For payment by instalments, see Section 21.

12. Since the above fees include the graduation fee, a Ph.D. candidate permitted to spend either the second or the third year of his course at an approved institution elsewhere must pay a special graduation fee of $17.50 before obtaining his degree. He is not required to register at McGill for any such non-resident session (see Section 44), unless he plans during it to attempt a McGill examination or to submit a thesis, in which case he must register and pay a fee of $10.00; this sum does not include the fees for special examinations (Sections 16, 17).

13. (a) A student who has completed his courses and his residence but has not completed his thesis must register at the Dean's office and with the Registrar, and pay a registration fee of $10, at the beginning of the session in which he intends to present his thesis. Such a student is not considered to be in residence, and the $10 fee does not give the student access to the libraries or laboratories, nor health and athletic privileges, nor membership in the Graduate Students' Association. If the student does not fulfil his intention to present his thesis, the fee is not returned and can not be transferred to any subsequent session.

(b) Registration is also required when a student has completed all requirements except for one or more examinations. The fee in this case will be $10.00 (non-resident) or $25.00 (resident), in addition to any fees due for special examinations (Sections 16,17).

14. A graduation fee of $100.00 is payable for the degree of D.C.L. or Mus.D. and should be forwarded with the application. This fee includes the cost of registration, but does not give the candidate the privileges of a student in residence.

There is no fee for any degree granted "*honoris causa.*"

15. (a) A candidate whose thesis is judged unsatisfactory by the examiners may present a revised thesis once again, for a subsequent Convocation, upon payment of the following fees:—

Master's Degree	$10.00
Ph.D. Degree	20.00
D.C.L. or Mus.D.	50.00

(b) Except for the D.C.L. and Mus.D. degrees, a registration fee of $10.00 (see Section 13) is also payable if a new session of non-resident

study is entered; if the student remains in residence for an additional session, the fee of $25 (see Section 10) will be charged instead of the registration fee, and in addition to the re-examination fee.

16. Fees for supplemental Examinations, granted under special circumstances by permission of the Dean on the recommendation of the Department, are payable in advance at $10.00 per paper. A student who has failed in any required course and does not receive permission to attempt a Supplemental Examination must retire from the Faculty. Only under exceptional circumstances may permission be granted by the Dean, on the recommendation of the Department, for the student to repeat any such course. In such a case the student must pay the fee required of partial students for the course in question (see Section 20a) in addition to fees applicable under Sections 10 and 15, but does not pay for supplemental examinations.

17. There is no fee for the language examinations for Ph.D. students (see Section 52) when these are first taken at the regular time in December. A fee of $5.00 is however charged when these examinations are taken at any other time, or when these examinations are retaken after a previous failure, or have not been taken in the Session in which they were entered upon the registration form.

18. French Summer School students who are proceeding to the M.A. degree are liable for the regular fee of $147.00 for the M.A. course but are remitted $34.25 of this for each Summer Session they have attended in the advanced course. They are required to register in the office of the Dean of the Graduate Faculty at the end of each of the second and third Summer Sessions; for this no fee is necessary. At the end of the fourth Summer Session they are required to register in the Graduate Faculty and pay the balance still owing of the M.A. fee of $147.00. If the presentation of the thesis is postponed beyond the May following this registration, they will pay an additional registration fee of $10.00 at the beginning of the session in which the thesis is to be presented. Students who have completed four Summer Sessions in French (or the equivalent) are excused the *in absentia* fee (see Section 10f) when they obtain an M.A. degree.

19. Students permitted to work for the High School Diploma and for the M.A. concurrently (see p. 1843), spreading the work for the M.A. over two years, pay the fee for the Diploma course in the first and a fee of $132.00 for the M.A. degree in the second of these years.

20. (a) The normal fee for "partial students of the Graduate Faculty" as defined in Section 5(b) is $60.00 per full course; special fees may be required for certain laboratory courses. A partial student carrying on research in McGill laboratories, but not taking courses, will normally pay $60 per session, plus Health Service fee of $7.00.

(b) Students in the "qualifying year" as defined in Section 5(c) will pay the fees designated for partial students, but the maximum fee charged will not exceed $157.00.

21. Fees are due and payable at the Accounting Office on or before October 25th. If paid by instalments the second instalment is due on February 2nd. An additional $5.00 is charged for payment by instalments. An additional $2.00 is charged for payment after the specified dates.

22. Immediately after October 25th a list of students who have not paid their fees is sent to the Dean of the Faculty, who removes their names from the register of attendance. Such students cannot be re-admitted to any class until instructions have been received from the Chief Accountant that the fees have been paid.

23. Late fees are charged as follows:

Application forms, after October 1st	$5.00
Registration at Registrar's Office, after October 25th	5.00
Payment of fees, after October 25th	2.00

24. Each student in Chemistry is required to pay a special fee of $7.00 for each session of resident study, including qualifying years, in lieu of caution money.

25. All resident students with the exception of those at Macdonald College, are entitled to the following health and athletic privileges:

(a) Medical examination; daily consultation service and hospital treatment, as furnished to undergraduates.

(b) Tennis privileges during the session and summer privileges on the same basis as undergraduates. (Present summer fee $5.00).

(c) Social skating privileges on the campus rink.

(d) Opportunities for exercise with various athletic clubs and eligibility for intercollegiate and other teams.

(e) A book of spectator's tickets, granting admission to all intercollegiate football and hockey games, etc., may be purchased for $3.00.

26. At Macdonald College, graduate students are required to live in residence and are entitled to medical attendance, major operations excepted, on the same basis as other students in residence. Graduate students at Macdonald College are entitled to participate in the activities of the various organizations and have one representative on the Men's Residence Com-

mittee. Graduate students who desire to take part in Athletics may do so upon the payment of the regular undergraduate subscription. A special fee is payable by those who desire student publications and the use of tennis courts.

27. All resident students of the Faculty of Graduate Studies and Research are members of the Graduate Students' Association.

28. All fees are payable in Canadian currency.

RESEARCH FELLOWS

29. (a) This title is intended to provide recognition and status on the University records for investigators of professorial calibre who are not members of the staff of McGill University but are attached temporarily to a department on the ground that their assistance is *required in the interests of a current programme of research.*

(b) A Research Fellow must not be proceeding to a degree, and any money grant that he receives must be either from McGill University or from some other institution for the advancement of learning and must be paid solely for the advancement of the research that he is pursuing and not for instruction or demonstration.

RESEARCH ASSOCIATES

30. The title of Research Associate is intended to apply to investigators of academic standing junior to that of the Research Fellow. They must not be proceeding to a degree, nor may they be members of the staff of McGill University, but the receipt of a grant or scholarship from McGill University or any other institution for the advancement of learning shall not be considered to disqualify them for this title.

GENERAL RULES CONCERNING HIGHER DEGREES

31. (a) A graduate student is expected to devote his full time to his courses, reading, and research in each session counted towards completion of residence requirements. Members of the teaching staff of the University who are also students in the Graduate Faculty and who give more than three hours of lecturing or six hours of conference work or twelve hours of supervisory work in laboratories and allied services per week may not obtain the Master's degree in one year, and will require at least four years for the degree of Ph.D. They may, with the written recommendation of the Chairman of the Department, apply in writing to the Dean to pay half fees for each of two years that shall count as one year of residence.

(b) Other students doing an equivalent amount of additional work inside or outside the University, will similarly be required to spread the Master's degree over two years or the Ph.D. over four years or more. They will, however, pay the normal fee (Section 10) for the first year of study towards the Master's degree, or for the first three years towards the Ph.D. degree, although full residence credit is not granted; for each additional year required the fee will ordinarily be $25.

32. No full-time student registered in any professional Faculty of the University may register for a graduate degree or for a qualifying year without the special permission of both Faculties in full session.

33. A candidate with a given higher degree may be permitted to proceed to a second degree of the same kind, but in another subject, provided that the usual requirements for the degree are entirely fulfilled and approved as usual by the Department concerned. In the computation of fees for such second degree, no account will be taken of the student's previous registration in the Graduate Faculty.

34. (a) A degree is granted in the Faculty of Graduate Studies essentially for work in one subject, known as the student's *major subject*. Certain allied or "cognate" courses in other subjects may be permitted or required; these must be entered on the sessional registration form, which must show whether the courses are to be taken for credit, including examination, or merely attended, and which must be signed by the Chairmen of all Departments concerned.

(b) There is no fixed number of course credits required for these degrees. The Department concerned will rather examine the applicant's previous training, undergraduate and graduate, and then decide how many of the available courses in the major subject and related fields are still required to bring the candidate to the proper level for the Master's degree or Ph. D. The satisfactory completion of such essential courses and the presentation of an acceptable thesis are two separate requirements which must be separately met. Due account will be taken of all relevant courses passed at any recognized University or College.

CLASSIFICATION OF MARKS

35. 100-80%.....First Class
79-65%.....Second Class
Below 65%.....Failure

This classification applies also to students taking a Qualifying Year.

Students who obtain marks between 50 and 64% in courses not required for the degree sought may, on recommendation of the major Department, be recorded as having "passed at the undergraduate level."

Students who have failed in required examinations are permitted to write supplemental examinations only on the recommendation of the major Department and with the permission of the Dean (see Section 16).

THE DEGREES OF MASTER OF ARTS (M.A.), MASTER OF SCIENCE (M.Sc.), MASTER OF ENGINEERING (M.Eng.), MASTER OF CIVIL LAW (M.C.L.), AND MASTER OF COMMERCE (M.Com.)

36. (a) Normal Procedure for the Master's Degree.

At least one full session or two half-sessions of resident study at McGill University is required for a Master's degree; this is a minimum requirement, and it will often be found impossible to complete the work for the degree within this time. Residence credit is not given for work done during the summer vacation, either at McGill (save in the French Summer School) or elsewhere; the majority of graduate students find it necessary, however, to devote the greater part of their summers to work upon the thesis problem. The procedure to be followed in applying for admission and in completing registration is described above (Section 6). The candidate is required to pass the examinations in the courses which have been indicated to him by the Department and which are recorded on his approved registration form (except such courses as are marked "not for examination") and he may also be required to pass a general examination in his major subject; the marks or classes he obtains in these examinations are part of his qualifications for the degree. The candidate must also present a thesis on some topic connected with his major subject. The title of the thesis may be entered upon the registration form, and if not decided at that date must be subsequently submitted, in writing, to the Chairman of the Department concerned and to the Dean for formal approval at least four months before the thesis is handed in. The thesis must be in some measure a contribution to knowledge and must also be written in good literary style. *For further regulations regarding theses, see Sections 59, 60, and 61.*

(b) Candidates who intend to proceed later to the Doctor's degree should note the language requirements (Section 52) and are strongly advised to take the examination in at least one language while working for the Master's degree.

37. Special Concessions for Civil Servants.

With regard to the M.Sc. and M.Eng. (which may be the first year of the Ph.D. course), the following concessions are approved:

(a) Candidates for the degrees of M.Sc. or M. Eng. who are graduates of McGill University and have had two or more years' experience in a Government Department, performing as their main duty work of the same type as that proposed for research, may, on recommendation of a Department and with the approval of the Faculty in full session, have their residence requirements reduced to one half-session only. It is under-

stood that these candidates must take the usual final examination in all subjects required. The full sessional fee is payable.

No special concessions can be made to Civil Servants who are graduates of universities other than McGill.

(b) A Government laboratory may be approved by the Faculty as a research institution (see Section 44).

38. The Degree of Master of Arts.

(a) Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Arts is provided in the following Departments of study, which rank as "subjects":

Classics
Economics and Political Science
Education
English Language and Literature
French Language and Literature
Geography
German
History
Mathematics
Philosophy
Physics
Psychology
Sociology

Studies in other subjects, including sciences and certain Theological studies (see p. 1818), may be undertaken as cognate courses only, and only with the permission of the Departments concerned.

(b) Candidates must hold the degree of B.A. They must have obtained at least a second class in an Honours course at McGill University, or its equivalent elsewhere, in the subject or subjects which they propose to study.

39. The Degree of Master of Science.

(a) Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Science is provided in the following Departments of study:

Agricultural Bacteriology
Agricultural Chemistry
Agronomy
Anatomy
Bacteriology and Immunity
Biochemistry
Botany
Chemistry
Entomology
Experimental Surgery
Genetics
Geography
Geological Sciences
Horticulture
Mathematics
Medicine
Meteorology
Neurology and Neurosurgery
Nutrition
Parasitology
Pathology
Pharmacology
Physics
Physiology
Plant Pathology
Poultry Husbandry
Psychology
Zoology

(b) Candidates must hold a Bachelor's degree with at least second class in an Honours course at McGill University, or its equivalent. Candidates with an M.D. degree must have attained high standing.

40. THE DEGREE OF MASTER OF ENGINEERING.

(a) Instruction for the degree of Master of Engineering is given in the following Departments of study, which rank as "subjects," in which definite courses may be selected:

Chemical Engineering
Civil Engineering
Electrical Engineering
Mechanical Engineering
Metallurgical Engineering
Mining Engineering

(b) Candidates must hold the degree of Bachelor of Engineering, or an equivalent degree, and their undergraduate academic rank must, in general, be equivalent to high second-class standing.

(c) The establishment of the degree of Master of Engineering does not prevent a properly qualified holder of the degree of Bachelor of Engineering, or the equivalent, from proceeding to the degree of Master of Science in pure science.

41. THE DEGREE OF MASTER OF CIVIL LAW.

(a) Instruction in the Faculty of Graduate Studies and Research leading to the degree of Master of Civil Law is provided in the following Departments of study which rank as "subjects."

Roman Law
Civil Law
Commercial and Maritime Law
Public Law, including International Law

(Courses in all subjects will not necessarily be offered each year.)

(b) Candidates must hold the degree of B.C.L. from McGill University, or its equivalent. They must be well qualified students who have obtained at least second class honours in the subject which they propose to take and in the course as a whole.

(c) One only of the above subjects may be taken.

Each candidate is required to take at least one course in his subject involving at least one year of resident study.

In addition he is required to meet in personal conference, at least once a week, the professor under whose supervision he is preparing his thesis.

For further details consult the Secretary of the Faculty of Law.

42. The Degree of Master of Commerce.

(a) This degree is at present granted in Economics only.

(b) Candidates must hold the degree of B.Com. from McGill University, with at least a creditable average second-class standing, and with at least second class standing in the required courses in Economics; graduates of other universities must possess equivalent qualifications, especially in Economics.

(c) Applications for admission must be approved by the Director of the School of Commerce and by the Chairman of the Department of Economics.

REGULATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY (Ph.D.)

43. (a) Candidates for the degree of Doctor of Philosophy must hold the degree of B.A. with Honours, or B.Sc. with Honours, or B. Eng. or B.Sc. (Agr.) or M.D., with at least good second-class standing in each case, from McGill University, or some equivalent qualification.

(b) Many Departments will require candidates who do not already hold an appropriate Master's degree to register for the M.A. or M.Sc. rather than for the Ph.D. direct; but may later recommend to the Committee on Research that candidates of undoubted promise should be allowed to proceed directly towards the Ph.D. without being required to submit a Master's thesis; in other cases, permission to proceed towards the Ph.D. may depend on the standing obtained in the Master's degree.

44. Candidates must follow a course of at least three years resident study at a University or other institution of higher learning or research; this is a minimum requirement, and there is no guarantee that the work for the degree can be completed in this time. Two at least of these years must be spent at McGill University, and these should if possible include the final year. Departments may permit or require candidates to spend one session at another institution approved by the Committee on Research (for fees, etc., see. Section 12); it is understood that this session must be one of full-time study, and that the institution selected must be able to provide expert supervision and facilities for research appropriate to the candidate, in the field selected. Candidates are therefore required to submit a programme of the work projected and particulars of the institution selected, for approval by the Committee, before undertaking any such period of study apart; and the Committee may require reports on progress from time to time or at the end of the period for which credit is claimed. The Faculty may make special exceptions to these general regulations concerning residence; it may permit McGill graduates, for example, to spend two years in study apart at approved institutions and to reside at McGill for the final year only. Residence credit is not granted for work done during the summer vacations, either at McGill or elsewhere; but it is

the custom for candidates to spend the greater part of each summer in work upon the thesis problem, and those who do not do so are unlikely to complete a satisfactory thesis in the prescribed minimum time; in certain subjects, *e.g.* in Agricultural sciences, summer researches are indispensable.

45. A student who has obtained his Master's degree at McGill University or at an approved institution elsewhere, and is proceeding to a Ph.D. may, on recommendation of the Department, be permitted to count the work done for the former as the first year of his resident study for the Doctor's degree (see Section 10e). The attention of students seeking admission on this basis is drawn to the language requirements (Section 52d), for which they are advised to prepare themselves in advance.

46. Candidates must select one major subject (see Section 34). Courses leading to the degree of Doctor of Philosophy are offered in the following as major subjects:—

Agricultural Bacteriology
Agricultural Chemistry
Anatomy
Bacteriology and Immunity
Biochemistry
Botany
Chemistry
Economics and Political Science
Entomology
Genetics
Geological Sciences
History
Medicine
Neurology and Neurosurgery
Parasitology
Pathology
Pharmacology
Physics
Physiology
Plant Pathology
Psychology
Zoology

47. In special cases, Departments may be able to provide courses in other subjects which will lead to this degree. Candidates desiring to proceed to the degree of Doctor of Philosophy in other Departments than those mentioned above should, therefore, make direct application to the Dean of Graduate Studies and Research, asking whether courses in such subjects can be provided.

48. The course of study which the candidate desires to follow must, before he enters upon it, have been submitted to the Chairmen of the several Departments concerned and have received their approval (see Section 6b.)

49. *Preliminary Examination.* The first two years include instruction, training and direction in the candidate's field of study, with the object of giving him a knowledge of his particular subject and its relation to cognate branches of learning and of preparing him for independent investigation. The candidate's preliminary examination is held at the end of the second year, or at a time selected by the Chairman of the major Department, unless otherwise specified by Departmental regulations approved by the

Faculty. This examination covers all graduate work previously taken by the candidate, including his prescribed reading, and may also include any work fundamental thereto. The candidate must show that he possesses a good general knowledge of the whole science or branch of learning which he has selected as his major subject. The examination may be written or oral or both. The result of this examination determines whether the candidate is allowed to proceed to his degree. The final year is devoted chiefly to the preparation of the thesis.

50. The candidate is also required to pass the examinations in the courses indicated by the Department, and recorded on his approved registration form, unless they have been marked "not for examination."

51. After the thesis has been received and approved, a special and more searching final oral examination on the subject of the thesis and subjects more intimately related to it is held. This is conducted in the presence of a Committee of at least four members approved by the Faculty of Graduate Studies.

52. (a) Every candidate must satisfy the Faculty of Graduate Studies and Research that he has a reading knowledge of French and German; candidates may, however, seek the permission of the Dean to substitute another language for either French or German.

(b) The candidate's major Department will select passages for translation, typical of the literature of the subject, and will make arrangements for the examination. The Departments of French and German must approve the passages selected, and will correct the translations and decide whether the candidate has fulfilled the requirements; they may also require any candidate to appear for oral examination and for explanation of his written answers.

(c) The examinations may be written in the first ten days of December without fee. A fee of $5.00 is, however, charged (see Section 17) for each Supplemental language examination, or for language examinations held at other dates which may be arranged (normally the first week in April or the fourth week in September). A student will not ordinarily be permitted to attempt any language examination on more than two occasions in any one calendar year.

(d) Candidates are required to take at least one language examination in the First Year of the Ph.D. course, and the other not later than the Second Year. Sessional registration forms (Section 6b) must indicate the student's intentions in this respect; a student who does not attempt a language examination in any session in which he has registered for it will be regarded as having failed the examination. Students admitted to the Second Year of the Ph.D. course (Section 45) must discharge their language requirements as early as possible. Sessional registration forms which do not comply with these requirements will be rejected.

(e) The Department of German offers, when possible, a special course open to candidates for the Ph.D. degree and designed to help them to acquire the necessary reading knowledge of the language: one lecture per week, hours to be arranged.

53. THESIS.

(a) The thesis for the Ph.D. degree must display original scholarship expressed in satisfactory literary form and be a distinct contribution to knowledge. The subject of this thesis must have been approved, in writing, by the Chairman of the Department in which the major subject is taken, and also by the Committee on Research, at least twelve months before the date of the final examination; the exact title may be decided later (Section 59d.).

(b) Three copies of the thesis must be provided by the candidate.

(c) The regulations concerning theses are stated in Sections 59, 60, and 61.

54. Special regulations for the Ph.D. in Economics are stated on page 1843, in History on page 1860, and in Entomology on page 1849.

REGULATIONS FOR THE DEGREE OF DOCTOR OF CIVIL LAW (D.C.L.)

55. Any person who has graduated as a B.C.L. from McGill University may after seven years from such graduation proceed to the degree of Doctor of Civil Law, provided he has distinguished himself by eminent services in the domain of law, and provided he has written a thesis on a subject previously approved by the Faculty of Graduate Studies and Research, and that such thesis has been adjudged by that Faculty to be a valuable contribution to legal science. The candidate may, instead of a thesis, submit a published book or books dealing in a scientific way with some branch or branches of law. Three copies of the thesis or book should be submitted to the Dean not later than February 14th, if the candidate hopes to be presented at the Spring Convocation. A very high standard is required for this degree, but it does not call for any resident graduate study in the University. See also Sections 14, 15, and 60 (h).

REGULATIONS FOR THE DEGREE OF DOCTOR OF MUSIC (Mus.D.)

56. Bachelors of Music of McGill University, after a lapse of a period of seven years from the time of taking the degree of Bachelor of Music, may proceed to the degree of Doctor of Music, the requirements for which are a composition in extended form, such as an oratorio, opera or cantata. This exercise must have as its first number an introductory orchestral movement in the form of a concert overture, must contain some eight-part writing and fugal treatment, and must be scored for a full orchestra.

If preferred, a candidate may present a composition scored for full orchestra in the form of a symphony, symphonic poem or tone poem occupying not less than forty minutes in performance. Compositions which have already been published or performed may be submitted, if otherwise suitable. The exercise should be submitted not later than February 2nd, if the cadidate hopes to be presented at the Spring Convocation; only one copy is required.The University may, if it elects to do so, order the candidate to give a public performance of his original and unaided composition, when approved by the examiners, in some public building connected with the University. In addition, an examination in the higher forms of composition is necessary, together with a critical knowledge of the full scores of certain prescribed work. See also Sections 14 and 15.

57. Graduates of other universities may, on payment of the necessary fees, be admitted "ad eundem" to the Degree of Mus.B. if they wish to proceed to the further degree of Mus.D. provided they secure permission to do so through the Faculty of Graduate Studies and Research from the Senate of the University, the period of seven years referred to above to be counted from the date on which they received the degree of Bachelor of Music from their own University.

58. *Requirements for Mus.D.*, Harmony up to eight parts; Counterpoint up to eight parts (strict and free); Instrumentation; Canon four and two; Fugue up to five parts; History of Music; Form and Analysis based on knowledge of Beethoven's nine symphonies, Brahms' second and third symphonies, Strauss' tone poem Death and Transfiguration, Wagner's Meistersinger and Tannhäuser Overtures, either Bach's St. Matthew Passion or Beethoven's Mass in C, and Mozart's Magic Flute or Wagner's Parsifal.

REGULATIONS CONCERNING THESES

59. (a) In the case of students who wish to graduate at the Spring Convocation, all theses for a Master's degree which do not involve experimental work must be handed to the Dean of the Faculty of Graduate Studies and Research not later than April 22nd. Theses for the degree of Ph.D. must be handed in on or before April 15th.

(b) All theses for the degree of Master of Science or of Engineering which involve experimental work, must be in the hands of the Dean not later than May 1st.

(c) The theses of students who wish to graduate with a Ph.D. or Master's degree at the Fall Convocation must be in the hands of the Dean of the Faculty of Graduate Studies and Research not later than September 1st.

(d) The title of the thesis, as approved by the Department, must be submitted for approval by the Committee on Research at least

four months before the thesis is handed in. The Dean may subsequently permit minor changes in the wording of the title.

60. All theses submitted by successful candidates for higher degrees (other than the Mus.D.) are bound and placed in the Library. Candidates for such degrees are therefore advised that the Faculty of Graduate Studies and Research requires theses to be prepared in accordance with the following specifications:

(a) The paper must be of a good Bond grade, and is to be of uniform size, 8½ x 11 inches.

(b) The left-hand margin is to have a uniform width of about 1½ inches. Drawings larger than the prescribed page should be folded in the manner most suitable for binding.

(c) Theses must be typewritten and in triplicate. Ultimately one copy is deposited in the McGill Library, one in the Departmental Library, and one is returned to the candidate.

(d) No binding is necessary, but the loose sheets must be placed, unfolded, in a manila envelope in the order of their pagination. On the outside of each envelope must be written clearly the name of the candidate, title of thesis, degree, date, and Copy I, II or III.

(e) Copies of the thesis must be double-spaced and free from typographical and other errors, otherwise they will be returned to the candidate for revision, with possible consequent delay in the granting of the degree.

(f) Every thesis should have an abstract and a sufficient table of contents, and a thorough bibliography on the subject. Scientific theses should also contain an introductory historical statement of previous work or investigation, and a summary. In the case of the Ph.D. degree, there should be a clear statement of the claim of original work or contribution to knowledge made by the author.

(g) The candidate is required to declare, generally in the preface and specifically in the text of the thesis, the extent to which assistance has been given by members of the staff, fellow-students, technicians, or others, in the collection of material, the design and construction of apparatus, the performance of experiments, and the preparation of the thesis in general. This regulation does not apply to the normal supervision and advice given by the director of the candidate's research.

(h) If a thesis is rejected it cannot be submitted again, in a revised form, more than once (see Section 15).

SUMMARIES OR ABSTRACTS OF THESES

61. Three copies of a statement must also be presented, on a separate sheet, giving the author, title of thesis, and a summary not exceeding 150 words.

COURSES OF GRADUATE STUDY

DEPARTMENT OF AGRONOMY

(Macdonald College)

Professor . . . . . L. C. Raymond
Associate Professor . . . . . E. A. Lods
Assistant Professor . . . . . J. R. Cowan
Lecturer . . . . . A. A. Hanson

The Department is well equipped to conduct research with crop plants particularly in relation to breeding.

All the important periodicals, scientific journals, books and bulletins on Agronomy and related subjects, are available to students in either the McGill, Macdonald College or Agronomy Department Libraries.

Courses for the Degree of Master of Science

Candidates who take Agronomy as a major subject must have had a good training and achieved high standing in Agronomy, Botany, Chemistry, and Genetics. Those who have not had adequate training in these subjects must rectify any such deficiency.

A. Experimentation.

One lecture and one laboratory period.

Prof. Cowan.

B. Hay and Pasture Crops.

Two lectures and two laboratory periods for one term.

Mr. Hanson.

C. Corn and Root Crops.

Two lectures and two laboratory periods for one term.

Professor Raymond.

D. Grain Crops.

Three lectures and three laboratory periods for one term.

Professor Lods.

E. Seminar.

Fortnightly, during the year . . . . . Professor Raymond and Staff

A student must take course E and two courses from A, B, C, and D. In addition, he must take at least one other course selected from the above, or in a cognate subject. Other cognate courses may be added or required on the advice of the director of research.

It is recommended that candidates spend at least one summer in the Department before or during the course.

1829
47/48

DEPARTMENT OF ANATOMY

Professor of Anatomy.....C. P. MARTIN
Associate Professor of Histology.....C. P. LEBLOND
Assistant Professor of Anatomy.....D. S. FORSTER
Assistant Professor of Anatomy.....S. M. FRIEDMAN
Lecturers in Anatomy.....E. W. WORKMAN, S. M. BANFILL
Sessional Lecturer in Anatomy.....R. M. H. POWER
Teaching Fellow.....J. GROSS

The department offers facilities for research work leading to the degrees of Master of Science and Doctor of Philosophy.

QUALIFICATIONS FOR ADMISSION

All candidates should consult the Chairman of the Department before entering these courses.

Candidates must have attained high standing in Anatomy 1 and 2 or in Microscopic Anatomy 5 and Embryology 7 at McGill, or the equivalent. They must have obtained a B.Sc., B.A., or M.D. degree.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE

1. Advanced laboratory work in Anatomy.
and 2. Experimental Morphology (Anatomy 6).
or 3. Physical Anthropology (Anatomy 4).

5. Cognate Subjects: Depending on the particular branch of Anatomy in which any candidate may be working, the Chairman of the Department can require him to attend any other course given in the University, subject to the consent of the Chairman of the Department concerned.

The thesis must be on some approved subject in Anatomy, Microscopic Anatomy or Experimental Morphology.

A special advanced course in Neuro-Anatomy is given by arrangement in the Neurological Institute by Dr. Francis McNaughton and his assistants (see the announcement under the Department of Neurology).

COURSES FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Following the work for the Master of Science degree, the student must specialize in either:

(a) Macroscopic Anatomy, including Comparative Anatomy and Physical Anthropology.

or (b) Microscopic and Experimental Morphology, taking cognate courses in Cytology and Genetics.

A comprehensive examination will be held at the end of the second year.

DEPARTMENT OF BACTERIOLOGY AND IMMUNOLOGY

Professors..... E. G. D. Murray (Chairman)
Frederick Smith

Assistant Professors..... C. D. Kelly
D. S. Fleming
G. G. Kalz
J. W. Stevenson

Lecturers..... J. de Vries
G. D. Denton
D. S. Nunes

Research Fellow..... Catherine F. C. MacPherson

Demonstrator and Teaching Fellow..... M. Jeanne Kahnke

General Qualifications for admission:

A B.Sc. Degree with at least second class Honours in Bacteriology and Immunology, or an M.D. Degree with high standing in Bacteriology, Immunology and Pathology, from McGill University. The equivalent from elsewhere is recognized but this must be supported by confidential letters of recommendation from professors familiar with the candidate's work.

M.Sc. Degree

Candidates who have satisfactorily completed the Honours course in Bacteriology as undergraduates may present themselves for examination for the M.Sc. degree at the end of one year's graduate work in the Department. Others may be required to spend two years in the Faculty of Graduate Studies and Research, the first of which will be spent taking a Qualifying Course comprising the Honours undergraduate Course 3 and such other courses as the Department approves. Candidates taking the Qualifying Course must reach a satisfactory standard in the examination at the end of the year to be permitted to proceed to the second year work. In cases where good and sufficient reason is shown, in terms of equivalent work, the Department may exempt a candidate from the Qualifying year. Candidates are required to present one topic for a Seminar and to attend Course 6 and with due approval may attend other courses in

the University Departments. The candidate is required to pass a general examination in Bacteriology and Immunology, including subjects dealt with in Course 6, and may be required to pass examinations in courses prescribed by the Department. These examinations together with a Thesis on a Research Problem will determine the award of the Degree in accordance with Faculty Regulations.

Ph.D. Degree

Candidates for the Ph.D. Degree may be required to have obtained a satisfactory Class in M.Sc. Degree (McGill).

Candidates are required each year to present one topic for a Seminar and attend Course 6 and may be required to attend cognate courses in other Departments. Candidates are required to pass a general examination in Bacteriology and Immunology, but will be judged principally on the ability they display in research.

Candidates will be occupied mainly in original research and the preparation of a Thesis in accordance with Faculty Regulations.

Course 6.

Special Topics in Bacteriology and Immunology.

Lectures and Discussions once a week. The topics vary from year to year.

Special Facilities

The courses given by the Department in the Faculty of Arts and Sciences and the Faculty of Medicine are available to candidates for the M.Sc. and Ph.D. degrees.

The practice of the Clinical Bacteriology services to the Hospitals is available to candidates as a means of instruction and a source of material for research and study.

DEPARTMENT OF AGRICULTURAL BACTERIOLOGY

(Macdonald College)

Associate Professor.....P. H. H. Gray
Assistant Professor.....F. S. Thatcher

Adequate laboratory and library facilities are available for courses leading to higher degrees, as listed below.

COURSES FOR HIGHER DEGREES

A. Soil Microbiology.....Professor Gray
B. Food Microbiology.....Professor Thatcher
C. Physiology of Micro-organisms.....Staff
D. Systematic Bacteriology.....Professor Gray

A minimum of one lecture and six laboratory periods weekly, and one hour of colloquium in either courses A and C, or B and C, will be required, in addition to work on a thesis. A cognate course, or cognate courses, may be required by the director of the candidate's research.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY:

Second year students will undertake advanced studies in the courses listed; such further instruction is given mainly as conferences and direction of study; cognate courses may be required if not already taken. The candidate is expected to spend most of his time in work on the thesis.

DEPARTMENT OF BIOCHEMISTRY

Professors . . . . . D. L. THOMSON, J. H. QUASTEL

Associate Professors . . . . . R. D. H. HEARD, O. F. DENSTEDT

Assistant Professor . . . . . K. A. C. ELLIOTT

Sessional Lecturer . . . . . JUDITH COHEN

Candidates who have satisfactorily completed the Honours course in Biochemistry as undergraduates may present themselves for examination for the M.Sc. degree at the end of one year's graduate work in the Department; others will usually require a qualifying year. Candidates for the Ph.D. degree must pass a general examination in Biochemistry, but will be judged principally by the ability they display in research. Candidates for either degree are expected to attend Courses A and B (below) and may, according to their qualifications, be required to take undergraduate courses 3, 4B or 5 in Biochemistry or other cognate subjects. (See Arts and Science Announcement.) Research will normally be carried out within the Department, but some students may work at the Montreal General Hospital under Dr. Quastel, or the Montreal Neurological Institute under Dr. Elliott, or by special arrangement in other biochemical laboratories within the University.

A. RECENT ADVANCES IN BIOCHEMISTRY.

One hour. The subject matter varies from year to year.

Text-books: Peters and van Slyke, "Quantitative Clinical Chemistry" (Williams & Wilkins); Allen, "Sex and Internal Secretions" (Williams & Wilkins); Luck, "Review of Biochemistry" (Stanford Univ.).

B. ADVANCED ENDOCRINOLOGY.

(Given jointly with the Departments of Anatomy, Endocrinology and Medicine and in cooperation with the Institute of Experimental Medicine and Surgery of the University of Montreal).

This course may be taken in two successive years, as only part of the ground is covered each session.

Two hours.

DEPARTMENT OF BOTANY

Professor ..... N. V. Polunin

Associate Professors ..... Muriel V. Roscoe, R. D. Gibbs, S. M. Pady

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for Higher Degrees

A. Experimental Plant Physiology.
Two lectures with laboratory.

B Plant Biochemistry.
Two lectures with laboratory ..... Professor Gibbs

C. Biochemical Plant Physiology.
Two lectures ..... Professor Gibbs

*D. Microtechnique
One lecture; two laboratory periods ..... Professor Roscoe

E. Plant Ecology ..... Professor Polunin
Lecture, conference, field and laboratory work.

F. Special Topics.
Prescribed reading, conference and practical work on selected topics within Anatomy, Taxonomy, Phytogeography, Ecology, Mycology, etc. ..... The Staff

Full course or half course.

G. Morphology of Reproduction ..... Professor Roscoe
Half course (Second term)
Lecture, conference and laboratory work.

Biological Colloquium.

Requirements for the Master's Degree

In addition to writing a thesis the candidate must satisfy requirements in two full courses (or the equivalent in half courses) from the above list and also attend the colloquium. On the advice of the director of research one Cognate course may be substituted.

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* Open to honours undergraduates.

Requirements for the Degree of Doctor of Philosophy

Second year students will take one of the above courses which they did not follow during their M.Sc. year. Further instruction is given mainly by way of conference and direction of study. Most weight is laid on the thesis.

DEPARTMENT OF CHEMICAL ENGINEERING

Professor ..... J. B. Phillips

Special Lecturers ..... W. Gauvin, S. G. Mason, N. Epstein

R. Chemical Engineering.

Two hours ..... Professor Phillips

Selected topics from flow of fluids, heat transfer, diffusional operations, distillation, etc.; assignment of advanced problems.

Master's Degree in Chemical Engineering

Students who hold a Bachelor's degree in Chemical Engineering have the option of studying for the Master of Science degree in Chemistry or the Master of Engineering degree in Chemical Engineering.

The following courses are required for the Master of Engineering degree:

I. Chemical Engineering R; with one of the following: Chemistry A, Chemistry D and E, Chemistry F.

II. One of the following: Chemistry N, Chemistry Q, Physics F, Chemistry L and G.

III. Chemical Engineering Colloquium.

IV. Thesis on a Chemical Engineering subject.

DEPARTMENT OF CHEMISTRY

Professors	O. Maass W. H. Hatcher C. B. Purves C. A. Winkler
Associate Professors	J. H. Mennie W. H. Barnes R. V. V. Nicholls
Lecturer	A. S. Ross
Honorary Lecturers	W. Boyd Campbell A. Eastwood V. R. Grassie S. Mason M. Morton J. H. Ross

Adequate laboratory and library facilities are available for the courses listed below and for research. The Pulp and Paper Research Institute affords ample facilities for research on the structure and properties of carbohydrates, cellulose, lignin, wood, and pulp and paper.

Courses for Higher Degrees

A Advanced Organic Chemistry.

Three hours per week.....Professor Nicholls

Modern interpretation of the mechanisms of organic reactions, ionic and free-radical, including substitution, addition, elimination, oxidation-reduction, polymerization and rearrangement.

B. Advanced Topics in Organic Chemistry.

Two hours per week.....Professors Purves and Nicholls

Application of physical properties to determination of molecular structure; chemistry of heterocyclic structures containing oxygen and nitrogen; methods for structure determinations of complicated organic molecules.

D. Atomic Structure and Valence Theories.

Two hours per week.....Professor Mennie

E. Advanced Inorganic Chemistry.

.....Professor Mennie

A reading course in Systematic Inorganic Chemistry.

Reference books: Caven and Lander, Systematic Inorganic Chemistry (Blackie and Son); Latimer and Hildebrand, A Reference Book of Inorganic Chemistry (Wiley); Mellor, Modern Inorganic Chemistry (Longmans Green).

F. Advanced Physical Chemistry.

Three hours per week.....Professors Maass and Winkler and Dr. Ross

(a) *Kinetic Theory of Gases:* mathematical deduction of fundamental relations for velocity, collision frequency, viscosity, thermal conductivity, diffusion, etc., discussion of imperfect gases. (b) *Chemical Kinetics:* factors affecting rates of homogeneous and heterogeneous reactions; activation energy theories of reaction mechanisms. (c) *The Phase Rule.*

G. Colloid Chemistry.

One hour per week.....Dr. Ross

Thermodynamic and kinetic treatment of properties of surfaces, sols, emulsions, gels.

J. Colloquium—Organic.

One hour per week.....Professors Purves and Nicholls

K. Colloquium—Inorganic and Physical.

Two hours per week.....Professors Maass and Winkler

L. Cellulose, Lignin, and Related Compounds.

Two hours per week.....Professor Purves

Evidence that cellulose is a linear macromolecule; methods for estimating distribution of molecular weights, and nature of supermolecular structure; behaviour of cellulose during various types of chemical reactions; chemistry of non-cellulose components of wood.

N. Chemical Physics.

Two hours per week..... Professor Winkler

Subject matter varies from year to year; chemical kinetics, photochemistry, molecular structure, etc.

O. Electrochemistry.

Two hours per week, first term.....Dr. Ross

Electrolytic conduction and electrolysis; Faraday's Laws; specific and equivalent conductance, measurement of conductance; mobility and transport number; hydration of ions; ionization of strong electrolytes: thermodynamics of cells; electrode potentials; concentration cells: liquid junction potentials; overvoltage and polarization phenomena.

Q. THERMODYNAMICS.

Two hours per week.....Professor Winkler

First and second laws, entropy, free energy, fugacity, activity, partial molal quantities, Debye-Huckel theory.

T. CHEMISTRY AND TECHNOLOGY OF HIGH POLYMERS.

One hour per week.....Professor Nicholls

Organic (carbon) and inorganic (silicon) polymers; nature of polymeric molecules; relationship between molecular structure and physical, chemical and mechanical properties; experimental methods for controlling and determining structures of polymers; properties of commercially available materials; methods of fabrication

APPLICATIONS FOR ADMISSION

In addition to official transcripts of the academic record, the Department of Chemistry requires two confidential letters of recommendation from professors familiar with the applicant's work, and a small, unmounted photograph.

A limited number of demonstratorships is usually available. These involve a maximum of twelve hours' instructional work per week and a limited amount of invigilation at University examinations. Application for a demonstratorship may be made at the same time as that for entrance.

REQUIREMENTS FOR THE MASTER OF SCIENCE DEGREE

I. Students are required to take examinations in (a) Organic, (b) Inorganic, (c) Physical, (d) Colloid Chemistry, and other assigned courses, if any.

II Colloquium—one per week.

Students are required to present and discuss papers dealing with fundamental and recent work.

III. Thesis.

REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

I. The research work in this Department may conveniently be considered under the following heads:

(a) Organic Chemistry, (b) Inorganic Chemistry, (c) Physical Chemistry, (d) Colloid Chemistry, (e) Cellulose Chemistry. One of these (under which the research falls) is designated the "principal subject" and each of the others a "secondary subject." Graduate students are required to take examinations in both "principal" and "secondary" subjects.

Principal Subjects: Several examinations, both written and oral, are held. Students are responsible for the subject matter of all related lecture courses and assigned reading. Cognate courses given in other Departments may be assigned and examinations required.

Secondary Subjects: The examinations are less rigorous than in the principal subject. The subject matter is more clearly defined and may include suitable lecture courses or texts, or both.

II. Colloquium—As for M.Sc., see above.

III. Thesis and Oral Examination.

Examinations in Chemistry

Principal Subjects:

1. An examination is held in May of the second year. Additional special examinations may be held during the third year.

2. Candidates who fail in the May examination of the second year are required to repeat the year and the examination in the principal subject.

Secondary Subjects:

1. All examinations are available in May and September for candidates in the first two years.

2. A supplemental examination in any subject may be taken only on recommendation by the Department.

3. Examinations in all subjects must be passed before the candidate enters his final year, except in special circumstances and then only with the approval of the Department.

4. For candidates entering the final year, the September examinations are supplemental examinations only.

General:

1. A candidate who may wish to take examinations in any one or more secondary subjects in September of his entrance year is advised to consult the chairman of the Department as soon as possible.

2. In a secondary subject a Master of Science examination at McGill will be accepted as a Preliminary Ph.D. examination provided the standard required by the Department is obtained.

Also, candidates who believe they have the necessary qualifications may apply to the director of their research for exemptions from examinations in secondary subjects. Such qualifications include a high standing in an examination taken at McGill or other University in the secondary subject. The approval of the Department is necessary for this exemption. Only one such exemption can be granted but substitution of other approved courses for secondary subjects in which the Department considers a candidate has reached the required standard is permitted.

DEPARTMENT OF CHEMISTRY

(Macdonald College)

Professor . . . . . .

Associate Professor . . . . . W. A. DeLong

Assistant Professor . . . . . R. A. Chapman

Sessional Lecturer . . . . . B. E. Baker

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for Higher Degrees

A. Chemistry of Soils . . . . . Professor DeLong
Two lectures—second term.

B. Plant Biochemistry . . . . . Professor DeLong
Two lectures—second term.

C. Food Analysis . . . . . Professor Chapman
Two lectures—both terms.

D. Industrial Utilization of Farm Products . . . . Staff of department
Two lectures—first term. (not given 1947-48.)

Special laboratory work (three hours per week) may be required in any of these courses.

DEPARTMENT OF CIVIL ENGINEERING AND APPLIED MECHANICS

Professors . . . . . R. E. Jamieson, Ernest Brown, R. DeL. French

Associate Professors . . . . . G. J. Dodd, Carleton Craig

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Master's Degree

A. Statically Indeterminate Stresses.

First term, two hours tutorial, and six hours computation and reports.
Professor Jamieson

B. Technical Elasticity.

First term, two hours tutorial, and six hours computation and reports.
Professor Jamieson

C. Secondary Stresses.

First term, two hours tutorial, and six hours computation and reports.
Professor Dodd

D. Highway Engineering.

Four hours tutorial, and twelve hours computation and reports.
Professor French and Staff

E. Hydraulics.

First term, two hours tutorial and six hours computation and reports.

Candidates for the M.Eng. degree will be expected to take at least two courses in addition to thesis work.

DEPARTMENT OF CLASSICS

Professors..... William D. Woodhead, C. H. Carruthers

Associate Professors..... P. E. McCullagh, E. M. Counsell

Courses for the Degree of Master of Arts

Greek A: Greek Lyric Poetry. Readings from the Anthologia Lyrica Græca and other texts.
Two hours colloquia.....Professor Woodhead

Greek B: History of the Epigram.
Two hours colloquia.....Professor Carruthers

Greek C The Republic of Plato.
Three hours.....Professor Woodhead

Greek D: Aeschylus, Oresteia.
Two hours colloquia.....Professor Woodhead

Latin A: Lucretius
Three hours.....Professor Carruthers

LATIN B: VIRGIL
Three hours.....Professor Woodhead

LATIN C: LATIN EPIGRAPHY AND PALÆOGRAPHY.
Two hours colloquia.....Professor Carruthers

LATIN D: ROMAN TRAGEDY.
Two hours colloquia.....Professor Woodhead

COURSES IN COMPARATIVE PHILOLOGY

Professor.....C. H. CARRUTHERS

A. INTRODUCTION TO THE STUDY OF LANGUAGE.
B. LATIN HISTORICAL GRAMMAR.
C. GREEK HISTORICAL GRAMMAR.
D. ELEMENTARY SANSKRIT.
E. GREEK DIALECTS.
F. OSCAN AND UMBRIAN.

All courses are colloquia of two hours weekly.

DEPARTMENT OF ECONOMICS AND POLITICAL SCIENCE

Professors	E. F. BEACH B. H. HIGGINS F. C. JAMES B. S. KEIRSTEAD D. MARSH F. WATKINS
Associate Professors	J. T. CULLITON J. B. ROLLIT H. D. WOODS
Assistant Professors	P. F. VINEBERG J. R. MALLORY

GRADUATE SEMINARS IN ECONOMICS

A. MICRO-ECONOMICS.
Reactions of individual economic organisms to their environment; theory of the firm and the consumer; price and wage determination; theory of the market.
First term.....Professor Keirstead

B. THEORY OF ECONOMIC CHANGE.
Methodological critique of theories of economic change, restatement of problems for analysis, analytical study of models involving population and technological changes, in the economy as a whole.
First term (not given in 1947-48).....Professor Keirstead

P. MACRO-ECONOMICS

Determinants of the general levels of income, employment, prices, production; economic fluctuations; economic trends; under-employment equilibrium and secular stagnation; conditions of economic progress; fiscal and monetary policies for maintaining full employment and preventing inflation.

Second term . . . . . Professor Higgins

Q. ECONOMETRICS.

The application of mathematics to the study of fundamental economic concepts: a course in economic theory rather than in statistics. Elementary acquaintance with calculus is assumed.

Second term . . . . . Professor Beach

M. RESEARCH PROBLEMS.

A seminar on research problems, not taken for course-credit.

First and second terms . . . . . The Staff

GRADUATE SEMINARS IN POLITICAL SCIENCE

C. POLITICAL THEORY.

Topic for 1947-48: The problem of Natural Law.

Prerequisite—Political Science 311 or its equivalent.

First Term . . . . . Professor Watkins

R. POLITICAL INSTITUTIONS.

Topic for 1947-48: Dominion-Provincial Relations in Canada; documents in the evolution of Canadian federalism.

Second Term . . . . . Professor Mallory

S. THE PROBLEM OF POLICY.

The theory of social judgment in policy decisions; economics as a guide to policy decisions; freedom and responsibility; democratic controls over concentrations of economic power.

Second Term . . . . . Professor Keirstead

Students who have obtained at least Second Class standing in the Honours B.A. course in Economics and Political Science at McGill University, or who have completed at least three full courses in Agricultural Economics at Macdonald College and at least two full courses in Economics and Political Science at McGill, with at least second class standing, are eligible for admission to the M.A. course. Students who hold the B.Com. from McGill with at least second class standing over-all and in all the required courses in Economics are eligible for admission to the M.Com. course. Students with equivalent qualifications from other approved institutions are also admissible.

Candidates for the Master's degree must follow at least one graduate seminar in each term; additional courses may be required by the Department. A thesis on an approved subject is required.

Students who have achieved high standing in the M.A. in Economics, or the M.Com., at McGill University, or have equivalent qualifications, may be permitted to proceed to the Ph.D. in two further years, one of which may be spent at an approved institution elsewhere.

DEPARTMENT OF EDUCATION

Professor . . . . . JOHN HUGHES
Associate Professor . . . . . A. B. CURRIE

CONDITIONS OF ADMISSION:

Candidates for the degree of M.A. in Education must show (a) that they have satisfied the general conditions for registration as candidates for the M.A. degree as laid down on page 1820 of the Announcement, or achieved distinction in the general course; (b) that they have attained a high standard (i.e., at least good second-class standing) in the work of the graduate year of training for the Teachers' High School Diploma, or its equivalent. On occasion, however, specially selected students may be permitted to work concurrently for the High School Diploma and for the M.A. degree in some relevant subject; in such cases the work for the M.A. must be spread over two years.

Candidates must also have done work in Psychology that is adequate for the needs of the M.A. course in Education, or else must complete an approved course in Psychology as part of their M.A. course.

COURSES FOR THE DEGREE OF MASTER OF ARTS

Satisfactory completion of the following courses and studies is required.

A. Seminar courses in two of the following:
   (1) Secondary Education.*
   (2) Comparative Education.
   (3) Bilingual Education.

B. Studies of (1) The History of Education in Canada.
   (2) A Selected Period or Topic in the General History of Education.

C. An approved course in Philosophy, or Psychology (prerequisite—two courses, including Course I).

D. Thesis.

*In special cases candidates may substitute an approved course in Educational Psychology for this requirement, but they must then take the Philosophy course specified under C.

47/48

DEPARTMENT OF ELECTRICAL ENGINEERING

Professors . . . . . Clarence V. Christie, G. A. Wallace

Associate Professors . . . . . E. G. Burr, F. S. Howes

Assistant Professors . . . . . W. H. Schippel, R. A. Chipman

Advanced Courses of instruction and laboratory facilities are available for graduate students desiring to proceed to the Master of Engineering degree in either Electrical Power or Electrical Communication Engineering.

I Electric Power Engineering:

Courses:

A. Electric System Stability . . . . . Professors Wallace and Schippel
B. Electric Machine Design . . . . . Professor Schippel
C. Inductive Coordination . . . . . Professor Wallace
D. Industrial Control Devices . . . . . Professor Schippel
E. Protection of Electric Power Systems. Professors Burr and Schippel

Research: Facilities are available for studies in the following fields:

a. System Stability
b. Generator and Motor Design
c. Dielectrics
d. Electronic Control
e. Protection of Electric Power Systems by Electronic Means.

II. Electrical Communication Engineering:

Courses:

*E. Introduction to Radiation Theory . . . . Professor Gillson (Maths. Dept.)
F. Communication Networks . . . Professor H. G. I. Watson (Physics Dept)
*G. Mathematical Methods in Engineering . . . . . Professor Gillson
H. Communication Apparatus Design . . . Professor Howes and Industrial Designers
I. Telephone Transmission . . . . . Mr. G. Gaudet
*J. Micro-wave Theory and Measuring Techniques . . . . . Professor Chipman

*Prerequisites: Course G or its equivalent is prerequisite to course E and course E is prerequisite to course J.

K. Radio-Frequency Transmission Lines and Networks.....Professor Howes

Research: Facilities are available for research in the following fields:

a. Audio-frequency circuits.
b. H.F. and UHF Circuits.
c. Micro-wave measurements.
d. Antenna problems (limited).
e. Electro-mechanical transducers (limited).
f. Pulse-testing problems.

III. Course Requirement for the Master's Degree:

For the Master's degree in Electric Power or in Electrical Communication Engineering the course requirement is four full courses (two one term courses are equivalent to a full course) of which one must be course G or its equivalent.

IV. Thesis Requirement:

In addition to the course requirement for the Master's degree, the student is required to submit a thesis based on his own research or development work in connection with some suitable problem in the broad fields of Power or Communication Engineering. The subject of the thesis must be approved by the Department of Electrical Engineering at the beginning of the year in which it is to be submitted.

V. Evening Courses in Communication Engineering:

All of the courses offered under III above are given in the evening. They are available both to full-time graduate students in the Department and to engineers in local industry who desire to work toward the Master's degree. Part-time students are permitted to take two full courses a year and the course work must be completed satisfactorily before thesis work is begun.

RESEARCH INSTITUTE OF ENDOCRINOLOGY

Gilman Cheney Research Professor and Director of the Institute.....J. B. Collip
Associate Professor.....Robert L. Noble
Assistant Professor.....Desmond Beall
Lecturers.....R. A. Cleghorn, *A. H. Neufeld, C. Gwendoline Toby
Research Fellow.....Hector Mortimer
Research Assistant.....K. M. McLean

*Honorary.

This Institute, established in 1941 and housed in the West Wing of the Medical Building, is devoted to research in the fundamentals of endocrinology. It is not an undergraduate teaching Department, but is closely associated with the Faculty of Graduate Studies and Research and the Faculty of Medicine, and affords facilities for advanced training in research for properly qualified graduates.

Entrance requirements are either the degree of Doctor of Medicine with high standing in the courses for that degree, or the Honours B.Sc. degree in Physiology or Biochemistry or its equivalent in training in these subjects. The minimum period in which a student with a B.Sc. or M.D. degree can obtain a Ph.D. degree is three years. A student with an M.Sc. degree or its equivalent may qualify for the Ph.D. degree in a minimum of two years. Graduate students working on research problems for a higher degree will be expected to pass a comprehensive examination on the subject and submit a thesis. Whereas no special lecture course is given by the Institute, seminars and directional instruction for supervision of the research programme are offered by the staff. Projects concerned with the chemistry, Biochemistry or physiological aspects of endocrinology in its widest sense, are considered suitable for advanced study.

The Institute is now closed (July 1947).

DEPARTMENT OF ENGLISH

Professor . . . . . Harold G. Files

Associate Professor . . . . . A. S. Noad

Lecturers . . . . . John Dando, Elmer Hall, Joyce Hemlow

Courses for the Degree of Master of Arts

A. Old English.

Prerequisite: English 12 (in the undergraduate course).

Two hours . . . . . Miss Hemlow

C. Chaucer.

Prerequisite: English 14 (in the undergraduate course).

Two hours . . . . . Miss Hemlow

D. The Drama in England from 1660 to the Present Time.

Two hours . . . . .

E. Pre-Shaksperian Drama . . . . . (Not given in 1947-1948.)

*F. SHAKSPERE (SIX PLAYS).
Three hours.....Mr. Dando

*G. ENGLISH POETRY FROM 1798 TO THE PRESENT TIME.
Three hours.....Professor Noad, Mr. Kline and an Assistant

H. ENGLISH NOVELISTS, FROM RICHARDSON TO THE PRESENT TIME
Three hours.....Professor File

*I. THE ENGLISH DRAMA, 1590-1642.
Two hours.....
(Not given in 1947-48)

*J. OLD ENGLISH.
Three hours.....Miss Hemlow

*K. THE TECHNIQUE OF THE DRAMA.
Lectures and demonstrations in Moyse Hall, once weekly.
Laboratory hours to be arranged.
Mr. Hall and Assistants

*L. MILTON AND SPENSER.
Three hours.....Miss Hemlow and Mr. Kline

*M. COMPARATIVE LITERATURE.
The Influence of English Literature upon the Continent of Europe in the 18th and 19th Centuries.
Three hours.....Professor Noad

*N. COMPARATIVE LITERATURE.
A study of some literary types from the Renaissance to the present day, with particular reference to the influence of Continental Literatures upon English.
Three hours (Not given in 1947-48).....Professor Noad

O. MEMOIRS AND MEMOIR WRITERS AND EPISTOLARY LITERATURE, LITERATURE OF PERSONAL REVELATION.
An intensive study of special problems.
Two hours.....Professor Noad

P. THE DEVELOPMENT OF THE ENGLISH PERIODICAL.
Two hours. (Not given in 1947-1948.)

Q. MYSTICAL AND OTHER RELIGIOUS LITERATURE IN ENGLISH DURING THE LATER SEVENTEENTH AND THE EIGHTEENTH CENTURIES.
Two hours.....Professor Files

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*Courses marked with an asterisk are undergraduate Honours courses in the Faculty of Arts and Science, which may also be followed by graduate Students who have not already taken them.

R. Literary Criticism.
Two hours.....Professor Files

T. An Advanced Course in the Technique of the Drama.
Prerequisite: Course K or its equivalent.
Two hours and laboratory periods.
Mr. Hall and other members of the Department

U. The Literature and Culture of the Renaissance.
Two hours.....Professor Noad and associates

V. Special Studies in Restoration Literature.
Two hours.....
(Not given in 1947-1948.)

W. A Special Study of the Field in which the Thesis is Written.
Professors Files, Noad, Miss Hemlow

X. Special Studies in 18th Century Literature.
Professor H. G. Files

Graduate Courses

Candidates for the degree of M.A., taking English as their only subject, must select three courses,—of which two must be from A to D (inclusive), and O to X, while J, or its equivalent, is compulsory, and (W), a course of special study in the field in which the thesis is written.

DEPARTMENT OF ENTOMOLOGY

(Macdonald College)

Professor.....W. H. Brittain
Associate Professor.....E. M. DuPorte
Assistant Professor.....F. O. Morrison
Lecturer.....W. E. Whitehead

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Degrees of Master of Science and Doctor of Philosophy

A. Taxonomy.
Each student must bring to the class a collection of the group of insects on which he desires to work, and may devote the greater portion of his time to a study of this group.
One lecture, one colloquium and four laboratory hours.
Professor DuPorte

B. Insect Morphology.
One lecture, one colloquium and four laboratory hours.
Professor DuPorte

C. Economic Entomology.
(a) *Principles of Insect Control.*
Two lectures and four colloquia.....Professor Morrison

(b) *Problems of Insect Control.*
Four laboratory hours throughout the year.
Professor Morrison

D. Medical and Veterinary Entomology.
Two lectures, three laboratory hours per week for one term. A more extensive course may be arranged for students interested primarily in this subject.....Professor DuPorte

†E. Ecology.
Two lectures, first term.....Professor DuPorte

F. Insect Physiology.
Two lectures and four laboratory hours.....Professor DuPorte

G. Seminar.
One and one-half hours weekly. Professors Brittain and DuPorte

H. Research in Entomology.
Four laboratory periods.....Professors Brittain and Morrison

Students are recommended to take courses offered by the Department of Zoology either as part of their major work or as a minor or cognate subject.

M.Sc. Requirements: In addition to writing a thesis, a student is required to take either Course A or Course B and one other course in addition to the Seminar. Students who have not obtained honour standing in the undergraduate courses in Entomology at Macdonald College, or the equivalent, will be required to take a qualifying year prior to being admitted to graduate work.

Ph.D. Requirements: The Ph.D. in Entomology may be awarded after the following requirements have been completed:

1. The student must spend two years of resident study and research at Macdonald College, and another year, taken preferably between these two years, at an approved institution other than McGill.
2. The student is also required to spend the equivalent of two summer seasons in research work at a Government laboratory or other approved research institution.

†This course is also open to advanced undergraduates.

DEPARTMENT OF FRENCH

Professor ..... J. E. L. Launay

Associate Professor ..... Lucie Touren Furness

Assistant Professors ..... Mme P. L. Lariviere, L. d'Hauteserve

Courses for the Degree of Master of Arts

A. Literary Criticism. (Department of English, Course R.)
Two hours.

B. La Critique littéraire.
One hour ..... Professor Launay

C. Montaigne.
One hour ..... Professor Larivière

D. Exercices pratiques (Colloquia).
One hour.

*E. Histoire du roman en France.
Three hours. (Given in 1948-49) ..... Professor Launay

*F. Histoire de la langue Française.
One hour ..... Professor d'Hauteserve

*G. Histoire de la poésie lyrique en France.
Two hours ..... Professor Larivière

*H. La littérature française contemporaine.
Three hours. (Given in 1948-49) ..... Professor Larivière

I. Victor Hugo: le poète et le romancier.
One hour ..... Professor Furness

K. Cours de traduction.
One hour ..... Professor Launay

Candidates for the Master's degree in French will take A, B, C, I, and K.

The M.A. thesis must be written in French.

Students from other Provinces and States where the opportunities of speaking French are small cannot normally obtain an M.A. in less than two years.

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*These are also Honours courses in the Faculty of Arts and Science.

Regulations for the Master of Arts Degree
Taken in the French Summer School

1. All work carried on towards an M.A. degree in the French Summer School is under the control and supervision of the Department of French in the Faculty of Graduate Studies of the University.

2. Requirements for the Master's degree:

   (a) The student must hold the degree of B.A. from McGill University or from another institution of recognized standing, with at least second class honours in French, or the equivalent of second class honours in French as granted by McGill University—which must include an ability to speak French fluently, and a sound knowledge of French literature.

   (b) A student qualified as in 2 (a), must complete four sessions in the Advanced Section of the French Summer School with at least second class standing in the final examinations of each session.

   (c) The student must prepare and present a thesis, written in French, which must be in some measure a contribution to knowledge. Its preparation is carried out under the direction of the French Department.

3. Students applying for admission to the Advanced Section of the Summer School, with the intention of proceeding towards the M.A. degree, should, as soon as possible, have a transcript of their academic record sent for appraisal to the Director of the School.

   Students whose record is considered the equivalent of the B.A. degree with at least second class honours in French as granted by McGill University will be notified of their eligibility for future admission to the Faculty of Graduate Studies of the University. At the end of their second session they will be allowed to register in that Faculty as candidates for the M.A. degree, provided they have completed the course requirements for the first two sessions (See also Section 18 of the General Faculty regulations, page 1815).

   Students who hold a B.A. degree but whose record is not considered the equivalent of the McGill B.A. with at least second class honours in French, may be allowed to make up the deficiency by taking more courses during their third and fourth summer sessions. They will also register in the Graduate Faculty at the end of the second summer session, provided that they have obtained at least a high second class standing in the courses of the first two summer sessions.

4. In the case of students of honours standing, the first summer session consists of five courses, the second of four courses, the third of three courses, and the fourth of two courses, each course consisting of three lectures per week. The decreasing number of courses through the four sessions enables the student to devote more time to the preparation of his thesis, which must begin in the third session at latest. Each student works under the guidance of a director of research who is a member of the French Summer School staff. The only listed course which may be taken for credit in more than one session is No. 31 (in 1947 Summer School) Advanced Composition (see below).

   Students may be required to take certain courses which are changed from year to year, and in any case:

   No. 31—Advanced Composition. A minimum mark of 65% must be obtained in the final examination of this course, irrespective of the final average for the set of courses taken during the session. The course must be repeated until this requirement has been met. As its material is varied each year, it can be taken a second summer for credit. If taken more than twice, it must then be carried as an extra course.

5. With the approval of the Graduate Faculty, one of the summer sessions, except the first, may be replaced by equivalent work in France or at another French Summer School.

DEPARTMENT OF GENETICS

Assistant Professors . . . . . J. W. Boyes, L. Butler

Lecturers . . . . . E. R. Boothroyd, F. C. Fraser

Courses for Higher Degrees

With the co-operation of the Department of Botany, the Faculty of Agriculture and the Montreal Botanical Garden adequate laboratory, greenhouse, field and library facilities are available for research in Plant or Animal Genetics and Cytology.

A. Cytology.
   1st term.

B. Genetic Interpretation of the Mechanics of Evolution.
   1st term.

C. Biometry. Applications of statistics to research problems in biology.

D. Seminar. A course entailing the presentation by each student of at least six reports on current researches in Cytology and Genetics.

E. Biological Colloquium.

F. Developmental Genetics.
2nd term.

G. Advanced Genetics and Cytogenetics.
2nd term.

Botany A, B or C, Zoology A or C, and other subjects cognate to Genetics or Cytology may be required.

Requirements for the Degree of Master of Science

Four of the above courses are required for the Master's degree in addition to a thesis on a research problem.

A sound knowledge of General Biology is prerequisite.

The research problem may be in Genetics or Cytology, or Cytogenetics.

Requirements for the Degree of Doctor of Philosophy

Only candidates who have shown indications of distinct research ability during their Master's training will be permitted to register for the Ph.D. degree. Course D must be taken in each year, and students must participate in the Biological Colloquium. See general regulations for further requirements.

DEPARTMENT OF GEOGRAPHY

Professor ..... G. H. Kimble

Assistant Professors ..... F. K. Hare, J. R. MacKay

Honorary Lecturer ..... A. Lincoln Washburn

I. Requirements for the M.A. Degree:

Arts graduates who have completed, with at least second class standing, four full courses (or their equivalent) in Geography, together with such courses in cognate subjects as the Chairman of the Department deems appropriate, may be admitted to candidacy for the M.A. degree, and become eligible to take the examinations and submit a thesis at the end of one session. All others will normally be required to spend a preliminary qualifying session on an approved program of studies, or to spread their M.A. work over two sessions.

Candidates must

(1) pass final examinations in two of the three graduate courses listed below;

(2) submit a thesis on an approved subject falling within the scope of one of them;

(3) attend prescribed graduate courses in History, Economics or Sociology.

In arriving at the candidate's final standing, primary consideration will be given to the quality of the thesis.

Regular lecture and seminar courses are available in the following subjects:-

A. History of Geographical Science and Discovery (one hour)—Professor Kimble.

B. Historical Geography of Select Area in North America (one hour)—Professor Kimble.

C. Regionalism and Regional Survey (one hour)—Professors Mackay and Hare.

II. Requirements for the M.Sc. Degree:

Science graduates who have completed, with at least second class standing, three full courses (or their equivalent) in the Department of Geography and have taken Geology 1 or 2, together with such other courses in cognate subjects as the Chairman of the Department deems appropriate, may be admitted to candidacy for the M.Sc. degree and become eligible to take the examinations and submit a thesis at the end of one session. All others will normally be required to spend a preliminary qualifying session on an approved course of studies, or to spread their M.Sc. course over two sessions.

Candidates must

(1) pass final examinations in two of the three graduate courses listed below;

(2) submit a thesis on an approved subject falling within the scope of one of them.

(3) attend prescribed graduate courses in Geology, Botany, Physics or Mathematics.

In arriving at the candidate's final standing, primary consideration will be given to the quality of the thesis.

Regular lecture and seminar courses are available in the following subjects:—

D. Advanced Climatology (one hour)—Professor Hare.

E. The Physical Geography of a Select Area in North America (one hour)—Professors Hare and MacKay.

F. Cartography, with particular reference to Special Purpose Maps (one hour)—Professor MacKay.

Adequate Laboratory and Library facilities exist for research in all the above-named fields of study.

Note: An M.Sc. course in Meteorology may also be offered by the Department: this is available to Honours graduates in Mathematics and Physics only.

DEPARTMENT OF GEOLOGICAL SCIENCES

Professors.....
- John J. O'Neill
- Richard P. D. Graham (Post-retirement)
- T. H. Clark

Associate Professors.....
- J. E. Gill
- F. F. Osborne
- A. W. Jolliffe

Courses for the Master's Degree

Students who have not satisfactorily completed courses equivalent to the undergraduate courses listed below must make up any deficiency, and, in addition take graduate courses, A ,B, E, and one other as advised The thesis must conform to the general regulations.

Undergraduate Courses

Petrology: (Arts and Sci. 10b, Eng. 146).

The common igneous, sedimentary and metamorphic rocks are described and their modes of occurrence discussed. In the laboratory, the student learns to identify such rocks by methods used in the field.

Two hours and laboratory period. Second term (half course).

Prerequisite:—1, 5, 6.....Professor Osborne

Text-book:—Pirsson & Knopf, "Rocks & Rock Minerals." 1926 (Wiley).

Stratigraphy: (Arts & Sci. 3a).

(1) Sedimentation.—weathering; sources and origin of sedimentary rocks; significance of their textures and structures; the structural relationship of strata.

(2) Correlation.—Index fossils; stratigraphic nomenclature; geological timetable; areal distribution of sedimentary rocks.

Reference is made throughout the course to matters of economic importance.

First term: Two hours and one hour laboratory, and two full days of field work during October. (Half course).

Prerequisite:—1 ..... Professor Clark

PALEONTOLOGY: (Arts & Sci. 12b).

The development of ideas concerning the origin of fossils. Kinds of fossils; collecting, preparation, and naming of fossils. Brief survey of systematic paleontology, following the standard biological classifications, with emphasis on fossil animals.

The stratigraphic and economic importance of paleontology. The importance of paleontology for the doctrine of evolution.

Second term: Two hours and laboratory and one full day's field work in April. (Half course).

Prerequisite:—1 or Zoology 1 ..... Professor Clark

OPTICAL MINERALOGY (Arts & Sci. 9a).

Topics covered in the lectures include refraction and double refraction, polarization of light, and the nature of and reason for the various optical characters exhibited by crystals. The laboratory course gives practice in the determinations of these characters, using the polarizing microscope, axial angle and other instruments.

One lecture and three hours laboratory period; first term. (Half course).

Prerequisite:—1, 5, 6 ..... Professor Jolliffe

PHYSIOGRAPHY:—(Arts & Sci. 2a).

A study of the surface features of the earth, their origins, changing aspects and influence on human activities. Special attention is given to the significance of various land forms in relation to soils, bedrock, rock structure and the distribution of natural resources. Maps, photographs, and local topographies provide illustrations.

First term: Two hours, and one laboratory period.

Prerequisite:—1 ..... Professor Gill

Text-book:—Lobeck, "Geomorphology" 1939 (McGraw-Hill).

GEOLOGY AND NATURAL RESOURCES OF CANADA. (Arts & Sci. 4b, Eng. 149).

A systematic survey of the surface features, soils, bedrock geology, mineral resources, forests, water powers and other minor resources of Canada. Maps and photographs are used to illustrate the course.

Second term: Three hours (Half course).

Prerequisite:—1 ..... Professor Gill

Assigned Readings

ORE DEPOSITS: (Arts & Sci. 8, Eng. 148).

Nature, origin, mode of occurrence and classifications of deposits of metallic, and of important non-metallic minerals; typical occurrences; geographical distribution.

Two hours; with laboratory in second term. (Full course).

Prerequisite:—7 and 10 ..... Professor O'Neill

References: Emmons, "Principles of Economic Geology," 1940 (McGraw-Hill), Bateman, "Economic Mineral Deposits," 1942 (Wiley).

GRADUATE COURSES:—

A STRUCTURAL GEOLOGY:

Lectures and colloquia; Two hours ..... Professor Gill

B. GEOLOGICAL COLLOQUIUM:

This course must be taken by all graduate students in Geology in the first and second years.

Professor Osborne

E. PETROLOGY AND PETROGRAPHY:

Three hours and laboratory ..... Professor Osborne

Text-books: Bowen, "Evolution of Igneous Rocks," Princeton University Press; Tyrrell, "Principles of Petrology," Dutton; Harker, "Metamorphism," Methuen.

I. GEOLOGY AND PROBLEMS OF THE PRE-CAMBRIAN:

Lectures and seminar at least two hours per week; first term.

Professor O'Neill

J. GEOLOGICAL MAP INTERPRETATION:

One hour seminar with assigned problems ..... Professor Gill

L. ADVANCED PETROLOGY AND PETROGRAPHY:

Seminar and at least nine hours laboratory work per week.

Professor Osborne

M. ADVANCED MINERALOGY:

Three hours seminar and laboratory per week, one term.

Professor Jolliffe

N. ADVANCED STRATIGRAPHY:

Hours to be arranged ..... Professor Clark

O. PHYSIOGRAPHY:

Seminar one hour ..... Professor Gill

P. ADVANCED PALEONTOLOGY:
Hours to be arranged.....Professor Clark

Q. ADVANCED ECONOMIC GEOLOGY:
Seminar, two hours.....Professor O'Neill
Gill and Osborne

R. ADVANCED STRUCTURAL AND DYNAMICAL GEOLOGY:
At least two hours seminar per week.....Professor O'Neill

Courses for the Degree of Doctor of Philosophy will be selected from the list of Graduate courses according to the student's particular interest, on the advice of his director of research. The thesis must conform to the general regulations.

DEPARTMENT OF GERMAN

Associate Professor.....W. L. GRAFF
Assistant Professor.....BERTHA MEYER

COURSES FOR THE DEGREE OF MASTER OF ARTS

A. GOETHE.
One hour.....Professor Graff

B. LESSING.
One hour.....Professor Graff

C. DIE ROMANTIK.
One hour.....Professor Graff

D. FROM NATURALISM TO EXPRESSIONISM.
Three hours.....Professor Graff

E. AUS DER GESCHICHTE DER DEUTSCHEN LYRIK VON GOETHE BIS IN DIE NEUZEIT.
One hour.....Professor Graff

F. GOTHIC AND INTRODUCTION TO GERMANIC PHILOLOGY.
One hour.....Professor Graff

Courses D and E are advanced Honours Courses in the Faculty of Arts and Science which may be selected by candidates for the M.A. degree if they have not already taken them.

When German is taken as the only or major subject two courses are selected from A, B, C, D, in consultation with the Department. If the candidate has never taken the undergraduate course in Middle High German Language and Literature or its equivalent, he must make up for this deficiency. A student intending to proceed to the Ph.D. degree at another university is strongly recommended to take course F in addition to the two selected. The thesis must be written in German.

When German is the minor subject chosen by the candidate one course is selected from A, B, C, D, in consultation with the Department, and the other course is E. The Middle High German requirement is not essential in this case.

NOTICE TO CANDIDATES FOR THE PH.D. DEGREE.

The Department offers a course for graduate students who are required to pass a special test showing that they have a reading knowledge of German. This course is given once a week at 5 p.m. on a day to be arranged. Those who decide to take it should do so during the session preceding that in which the required language test is held.

DEPARTMENT OF HISTORY

Professors..... E. R. ADAIR, H. N. FIELDHOUSE
Assistant Professors..... C. C. BAYLEY, J. I. COOPER
Sessional Lecturer..... W. S. REID

COURSES FOR THE DEGREE OF MASTER OF ARTS AND DOCTOR OF PHILOSOPHY

A. HISTORICAL METHOD AND CRITICISM.
Seminar.....Professors Fieldhouse, Bayley and Cooper
First term, one hour;
Second term, two hours.

B. THE HISTORY AND PERSONNEL OF THE ENGLISH HOUSE OF COMMONS IN THE LATE 14TH CENTURY..
Seminar, one hour.....Professor Bayley

C. THE WYCLIFITE MOVEMENT IN ITS RELIGIOUS AND SOCIAL ASPECTS.
Seminar, one hour.....Professor Bayley

D. SCOTLAND ON THE EVE OF THE REFORMATION.
Seminar, one hour.....Dr. Reid

E. THE SEVENTEENTH CENTURY.
Seminar, one hour.....Professor Adair

F. ENGLISH HISTORY. 1688-1760
Seminar, one hour.....Professor Fieldhouse

G. ENGLISH HISTORY. 1870-1914.
Seminar, one hour.....Dr. Reid

H. WESTERN EUROPEAN HISTORY. 1870-1914.
Seminar, one hour.....Professor Fieldhouse

I. A Selected Period in the History of French Canada, down to 1800.
Seminar, one hour.....Professor Adair

J. A Selected Topic in Canadian History, 1800-1900
Seminar, one hour.....Professor Cooper

K. History of a Quebec Parish.
Seminar, one hour.....Professor Adair

The Department of History is prepared to direct the research of graduate students in any one of the following fields: (1) English history in the later Middle Ages; (2) The constitutional evolution of the Holy Roman Empire in the thirteenth century; (3) Scottish history in the fifteenth and early sixteenth centuries; (4) English and French history in the sixteenth and seventeenth centuries; (5) English History, 1688-1760; (6) English History, 1870-1914; (7) Certain aspects of English economic history; (8) Western European History, 1870-1914; (9) The history of New France; (10) The history of the French and English in the Province of Quebec; (11) General history of English-speaking Canada.

Graduate work in the Department of History is directed through seminars and conferences. Students are expected to acquire a sound knowledge of methods of historical research and the ability to apply them in practice. Candidates both for the M.A. and for the Ph.D. are therefore required to take Course A, and to take the prescribed examination. The Redpath Library is well equipped with printed sources for the periods and subjects mentioned above, and students pursuing research in Canadian History will be required, as occasion arises, to avail themselves of the manuscript resources of the Dominion Archives at Ottawa and the Provincial Archives at Quebec, and of parochial and other records in Montreal and its vicinity.

Candidates for the degree of Master of Arts will take the appropriate seminar or seminars and will also prepare a thesis upon some subject to be selected from within the scope of one of the seminars they are taking; the thesis must be the product of real research on a subject hitherto imperfectly explored, and is regarded as the major test in determining the candidate's fitness for this degree.

The Ph.D. degree will be awarded on a course of study and research extending over three or more years. The first year of study for honours graduates of McGill University in History will consist of the M.A. course as outlined above; for graduates of other universities, of this course or its equivalent. The second and third years shall consist of:—

(a) Resident study and research at McGill University under the general supervision of the Department, and directed in the

appropriate seminar or seminars, the work to bear on the thesis subject, and to include the preparation of the thesis, which must represent a genuine contribution to historical scholarship. It is desirable that the thesis should be a development and expansion of the work done for the M.A.

and (b) Resident study and research elsewhere for one of these years, or in the case of McGill graduates, if desirable, for both of these years, at an approved university or repository of archives in continuance of the work upon the thesis subject already selected. In all such cases the approval of the Faculty is required.

The preliminary Ph.D. examination requirements (discussed in the Announcement, in section 49 of the regulations for the degree of Doctor of Philosophy), will be replaced by a report from the Department of History on the general work and ability of each candidate and by a general examination on the historical background of the subject on which the thesis is to be written; this examination can be taken either at the end of the first year or during the second, as decided by the director of the student's studies.

Candidates are advised to satisfy the language requirements for the degree of Doctor of Philosophy as early as possible in their course; they should consult the Department as to the selection of the two foreign languages in which they propose to be examined, as these must be chosen for their bearing upon the candidate's special field and the special subject of his research.

DEPARTMENT OF HORTICULTURE

(Macdonald College)

Associate Professor.....H. R. Murray
Lecturer.....A. N. Nussey

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Degree of Master of Science

A. Pomology.
Lectures and colloquium, three hours.
Laboratory, three hours.

B. Vegetable Crops.
Lectures and colloquium, three hours.
Laboratory, three hours.

C. Experimentation. (See Course A.—Department of Agronomy)

D. Plant Physiology. (See Course A.—Department of Botany)

E. Advanced Genetics and Cytology. (See Course B.—Department of Genetics)

Requirements for the Degree of Master of Science

1. A candidate must select either Course A or Course B and in addition Agronomy A (Experimentation) and at least one further course approved by the Faculty such as Botany A (Plant Physiology) or Genetics 43b (Advanced Genetics and Cytogenetics).
2. The research problem must be approved by the Departments involved, each candidate being jointly responsible to the Department of Horticulture and to some other Department, such as Botany, Genetics, or Plant Pathology, approved by the Faculty for his case.
3. The candidate must spend one summer in the Department before or during the course, or have its equivalent at some other approved institution.

DEPARTMENT OF MATHEMATICS

Professors	C. T. Sullivan N. B. MacLean A. H. S. Gillson W. L. G. Williams
Associate Professors	H. Tate P. R. Wallace
Assistant Professors	W. Bruce Ross E. Rosenthall

Courses for the Master's Degree

APPLIED MATHEMATICS

61. Methods of Mathematical Physics.

An introduction to the ideas contained in Vols. I and II of *Methoden der mathematischen Physik*, by Courant and Hilbert; with illustrative problems.

Two hours . . . . . Professor Gillson

62. Quantum Mechanics (*Physics 62*).

Introduction to the ideas and methods of quantum theory, with illustrations from the simpler physical applications.

References:—Rojansky, *Introductory Quantum Mechanics* (Prentice-Hall); Pauling and Wilson, *Introduction to Quantum Mechanics* (McGraw-Hill); Frenkel, *Wave Mechanics, Elementary Theory* (Oxford); Gurney, *Elementary Quantum Mechanics* (Cambridge).

Professor Wallace

63. Advanced Quantum Mechanics.

Selected topics, with applications, including nuclear physics.

Prerequisite:—62. (Given in alternate years) . . . . . Professor Wallace

64. Mathematics of Quantum Chemistry.

Atomic structure, chemical bonding, theory of valency, elements of quantum statistical mechanics: for 2nd year graduate students.

References:—Heitler, *Elementary Wave Mechanics* (Oxford); Pauling and Wilson, *Introduction to Quantum Mechanics* (McGraw-Hill); Dushman, *Elements of Quantum Mechanics* (Wiley); Gurney, *Elementary Quantum Mechanics* (Cambridge); Mott, *Outline of Wave Mechanics* (Cambridge); Penney, *Quantum Theory of Valency* (Methuen); Eyring, Kimball & Walter, *Quantum Chemistry* (Wiley).

Two hours . . . . . Professor Wallace

65. Statistical Mechanics and Kinetic Theory of Matter (*Physics 65*).

Classical and quantum statistical mechanics, with applications; tatistical theories of the gaseous, liquid and solid states.

References:—Mayer and Mayer, *Statistical Mechanics* (Wiley); Lindsay, *Physical Statistics* (Wiley); Fowler, *Statistical Mechanics* (Cambridge); Tolman, *Statistical Mechanics* (Oxford); Schrödinger, *Statistical Thermodynamics* (Cambridge); Rice, *Statistical Mechanics* (Constable); Kennard, *Kinetic Theory of Gases* (McGraw-Hill); Loeb, *Kinetic Theory of Gases* (McGraw-Hill);

(Given in alternate years with 63) . . . . . Professor Wallace

66. Mathematical Theory of Relativity.

Text-book:—Eddington, *Mathematical Theory of Relativity* (Cambridge).

Two hours . . . . . Professor Gillson

67. Theoretical Fluid Dynamics.

Hydrodynamics of perfect fluids with applications to aeronautics. Potential motion, laws of vortex motion, two-dimensional problems, viscous fluids, motion in pipes, turbulence, Reynolds' criterion, compressible fluids.

Text-book:—Milne-Thomson, *Theoretical Hydrodynamics.*

References:—Goldstein, *Fluid Dynamics* (Clarendon); Durand, *Aerodynamic Theory*.

Professor Rosenthall

68. MATHEMATICAL THEORY OF ELECTRICITY AND MAGNETISM.

Theory of electricity and magnetism presented as a logical mathematical development from experimental data. The student will be required to work many problems involving conformal transformations, contour integration, spherical harmonics, Bessel functions.

Text-book:—Smythe, *Static and Dynamic Electricity* (McGraw-Hill).

Professor Rosenthall

69. MATHEMATICAL STATISTICS.

Probability; Binomial, Poisson, Lexis and Normal distributions; regression and correlation; theory of simple sampling; beta and gamma distributions; chi-square; small samples; variance and covariance; multivariate distributions; nature of statistical hypotheses; statistical design in experiments; sequential analysis.

References:—Uspensky, *Mathematical Probability* (McGraw-Hill); Weatherburn, *Mathematical Statistics* (Cambridge); Hoel, *Mathematical Statistics* (Wiley); Yule and Kendall, *Theory of Statistics* (Griffin).

Professor Tate

ALGEBRA AND THEORY OF NUMBERS

71. MODERN HIGHER ALGEBRA.

Basic algebraic systems: groups, rings, fields: linear algebras.

Professors William and Rosenthall

72. THEORY OF EQUATIONS.

Symmetric functions of the roots of algebraic equations; Sturm's and Budan's theorems; transformations; the general equation from the group standpoint; ruler and compass constructions.

Text-book:—Burnside and Panton, *Theory of Equations* (Longmans).

Professor Ross

73. THEORY OF NUMBERS.

Fundamentals; quadratic reciprocity law; algebraic numbers; analytic number theory; Diophantine analysis; quadratic forms.

Professors Williams and Rosenthall

ANALYSIS

81. Topics in Modern Analysis.

Topics of modern function theory, such as divergent series, entire functions, Hadamard's three-circle theorem.

Prerequisites:—34b, 43b, 44.

References:—Whittaker and Watson, *Modern Analysis;* Borel, *Fonctions entières;* Landau, *Darstellung and Begrundung.*

Professors Williams and Rosenthall

82. Calculus of Variations.

General theory, and complete solutions of selected problems.

References:—Bliss, *Calculus of Variations;* Bolza, *Lectures on the Calculus of Variations.*

Professor MacLean

GEOMETRY

91. Theory of Algebraic Plane Curves.

This course is based primarily on the works of Ganguli and Hilton, It encompasses a discussion of singular points, polar reciprocation, foci, superlinear branches, Plücker's numbers, quadratic transformations, unicursal cubics, non-singular cubics, unicursal quartics, and quartics of deficiency one or two.

Reference:—Hilton, *Plane Algebraic Curves.*

Professor Sullivan

92. Metric Differential Geometry.

The point of view and the material employed here are based almost entirely on Forsyth's *Lectures on Differential Geometry.* The following more general subjects are included; space curves, general theory of surfaces, organic curves on surfaces, deformation of surfaces, triply orthogonal systems of surfaces.

Reference:—Forsyth, *Differential Geometry.*

Professor Sullivan

93. Analytic and Synthetic Projective Geometry.

The course will follow a classical presentation. Some of the topics emphasized are: perspectivity and projectivity; projective theorems relating to the conics; groups of linear transformations; correlations and polarities.

Reference:—Campbell, *Advanced Analytic Geometry.*

Professor Tate

HISTORY

100. History and Development of Mathematics.

Mathematics in the pre-Greek world, among the Arabs, in Renaissance Europe, in the post-Renaissance period, and in the Nineteenth Century. The Modern period. Development of mathematics from the historical point of view. Lectures, reading and reports. The emphasis is on mathematical ideas rather than on biography.

Text-book:—Bell, *Development of Mathematics;* Neugebauer, *Vorgriechische Mathematik;* Gow, *Greek Mathematics.*

GENERAL REMARKS

1. The following undergraduate mathematical courses may, under special circumstances, be taken for graduate credit:

   Listed in the Arts and Science Announcement.

   31 (Statics and dynamics); 33 (Differential equations and advanced calculus); 34b (Infinite series and integrals); 41 (Mathematical physics); 42a (Algebra); 43b (Real variable); 44 (Complex variable); 45b (Numerical analysis); 46b (Mathematical theory of electricity and magnetism); 46a (Fluid dynamics)

   Listed in the Engineering Announcement.

   201 (Differential Equations.)

2. Students taking an M.A. or M.Sc. in Mathematics are required to complete three approved graduate courses, and to submit a thesis.

3. Attention is called to the Evening Courses leading to the degree of Master of Engineering, which are described in the announcement of the Department of Electrical Engineering.

4. Owing to the increasing impact of Pure and Applied Mathematics upon a large variety of fields of study, attention is particularly called to the possibility of arranging a suitable programme of mathematical courses to meet the individual needs of graduate students majoring in other fields than those listed above.

DEPARTMENT OF MECHANICAL ENGINEERING

Professors . . . . . C. A. Robb
Charles M. McKergow (*post-retirement*)

Assistant Professor . . . . . James A. Coote

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Master's Degree

A. Engineering Thermodynamics. *Prerequisites*, *Courses 228, 229 and 251.

Three hours colloquia.....Professor McKergow

B. Machine Design. *Prerequisites*, *Courses 225 and 242.

Three hours colloquia.....Professor Roberts

C. Industrial Engineering. *Prerequisites*, *Courses 252, 254, 258 or their equivalent.

Two hours lectures and two hours colloquia.....Professor Coote

**These are the numbers of courses given in the Faculty of Engineering.*

DEPARTMENT OF MEDICINE

Professors.....G. R. Brow, J. S. L. Browne

Assistant Professor.....Eleanor M. Venning

Lecturers.....M. M. Hoffman, Victor Schenker, Bram Rose

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Degree of Master of Science

Candidates for a Master of Science degree in Medicine must have had a high standing in the courses for the degree of Doctor of Medicine, or, in the case of those candidates without an M.D. degree, at least second class honours in their undergraduate courses, particularly in the subjects of Physiology and Biochemistry, and candidates for the degree of Doctor of Philosophy must have obtained a high standing in the Master of Science degree if this has been taken.

A. Seminar. Experimental Medicine.
One hour.....Dr. Browne

B. Advanced Endocrinology (Biochemistry B)
A bi-weekly course on selected topics in Endocrinology; may be taken in two successive years.

C. Conferences will be held with candidates, guiding them in their reading and for criticism of their reseach.

D. Cognate Subjects. Each student will be required to take certain courses in cognate subjects, depending upon the special field of Medicine in which his research work is directed.

All candidates for this degree must take all of the above courses and devote the remainder of their time to experimental research, the accomplishment of which, as embodied in their thesis, will be the main consideration in recommending them for this degree.

Requirements for the Degree of Doctor of Philosophy

The above courses are continued throughout the first two years of graduate study while the final year is entirely devoted to research and this must be of a fundamental and far-reaching character.

Advanced Study

In addition to courses leading to the M.Sc. and Ph.D. degrees, the Department of Medicine offers opportunities for advanced study in the clinical field to properly qualified graduates.

For information on such advanced study, graduates should apply to the Secretary of the Faculty of Medicine, McGill University.

DEPARTMENT OF METALLURGICAL ENGINEERING

Professor . . . . . J. U. MacEwan

Associate Professor . . . . . Gordon Sproule

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Master's Degree

A. General Advanced Metallurgy. Directed reading supplemented by two hours of colloquium and three hours of laboratory work.
Professors Sproule and MacEwan

This may include a special study of one or more selected metals or of some special branch of Metallurgy such as Electro-metallurgy, Pyro-metallurgy, Metallography, etc.

The following undergraduate subjects are offered to students who did not take them in their undergraduate course:—

B. Advanced Metallurgy. Fourth Year Engineering, No. 272.
Two hours.

C. Electro-Metallurgy. Fourth Year Engineering, No. 275.
Two hours, second term.

D. Metallurgical Problems and Design. Course 278 in the Faculty of Engineering (See announcement of that Faculty).

E. Metallography and Laboratory. Fourth Year Engineering, Nos. 280 and 281.
Two hours, session; one laboratory period, second term.

DEPARTMENT OF MINING ENGINEERING

Professor . . . . . LEIGH W. BLADON
Assistant Professor . . . . . M. D. O'SHAUGHNESSY

Adequate laboratory and library facilities are available for the courses listed below and for research.

COURSES FOR THE MASTER'S DEGREE

*A. MINING ENGINEERING. Courses 291 and 297 in the Faculty of Engineering (see Announcement of that Faculty).

B. ORGANIZATION AND MANAGEMENT OF MINES.
Two hours . . . . . Professor Bladon

C. THE CYANIDATION OF GOLD AND SILVER ORES.
One hour, first term . . . . . Professor O'Shaughnessy

D. FLOTATION AND CYANIDATION LABORATORY. Students who wish to supplement Course G are given one or two laboratory periods per week, second term. Professors MacEwan and O'Shaughnessy

E. THE THEORY AND PRACTICE OF FLOTATION.
Two hours, first term . . . . . Professor O'Shaughnessy

F. FLOTATION LABORATORY. Students who wish to supplement Course E are given one or two laboratory periods per week, second term. . . . . Professor O'Shaughnessy

G. MINE VENTILATION. Two hours . . . . . Professor Bladon

H. MINE MECHANIZATION. Reading course. . . . . Professor Bladon

Permission is given for two or more graduate students to work together on the physical part of an investigation, when the nature of the problem and the facilities in the laboratory make it desirable to do so.

No collusion in working up of results or in writing of the thesis is allowed.

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*Undergraduate course open to graduate students who have not already taken it as undergraduates.

DEPARTMENT OF NEUROLOGY AND NEUROSURGERY

47/48

Professor.....WILDER PENFIELD

Associate Professor.....WILLIAM CONE
(in charge of Graduate Studies)

Assistant Professors.....
- ARTHUR ELVIDGE
- DONALD MCEACHERN
- HERBERT JASPER
- FRANCIS MCNAUGHTON
- K. A. C. ELLIOTT
- D. MCRAE

Lecturers.....
- JOHN KERSHMAN
- T. RASMUSSEN

COURSES FOR THE DEGREES OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY

A. SEMINAR IN NEUROPATHOLOGY, 1 hour (52 weeks)
Gross and microscopic demonstration to be supplemented by collateral work.
Fridays, 5 p.m.....Drs. Cone and Penfield

B. SEMINAR IN NEUROANATOMY, 4 hrs. weekly (12 weeks)
Lectures and construction of brain model.
Two evenings, beginning in November
Drs. McNaughton and Kershman

C. SEMINAR IN NEUROPHYSIOLOGY, 3 hrs. weekly (12 weeks)
Laboratory demonstrations, lectures and discussions.
Mondays, 5-6 and 8-10 p.m., beginning in February...Dr. Jasper

D. NEUROCHEMICAL BASIS OF NEUROLOGY AND PSYCHIATRY, 1 hour weekly
10 lectures—Allan Memorial Institute.....Dr. Elliott
5 Laboratory exercises—Montreal Neurological Institute
Dr. McEachern

E. COLLOQUIUM IN EXPERIMENTAL AND CLINICAL NEUROLOGY, 1 hour.
Discussions and lectures before Fellows Society
Dr. Rasmussen

F. COLLOQUIUM IN CLINICAL NEUROLOGY, 2 hrs. weekly
Clinics and lectures. Wednesdays, 5 p.m.....Dr. McEachern

G. COLLOQUIUM IN NEUROSURGERY AND ELECTROENCEPHALOGRAPHY, 1 hour weekly
Fridays, 4 p.m.....Drs. Penfield and Jasper

H. Colloquium in Neurological Roentgenology, 1 hour weekly Mondays, 9 a.m. ..... Dr. McRae

Note:—Candidates for graduate degrees may present courses A, B, C, and D as credits toward the degree, but not E, F, G, and H except by special permission of the Department Chairman. Degree candidates must secure approval of (1) course supervisor, (2) Director of research, and (3) Dr. Cone, before entering any of these courses. Candidates may be subjected to examination at the close of the course before credit is given.

Others may enroll in these courses at the discretion of the supervisors. Space is limited, particularly in courses A and B. Only those who have been received in the Fellows' Society are entitled to enroll in course E.

For the degree of Doctor of Philosophy the above course requirements are made in each of the first two years of work. Other requirements are outlined under the general statement and regulations of the Faculty of Graduate Studies and Research.

In addition to the above formal courses the Department provides opportunity for advanced clinical study and laboratory research to properly qualified graduate students. The work of this Department is carried out chiefly in the Montreal Neurological Institute.

DEPARTMENT OF NUTRITION

(Macdonald College)

Professor ..... E. W. Crampton
Lecturer ..... G. C. Ashton

Courses for the Degree of Master of Science

Adequate laboratory and library facilities are available for the course listed below and for research.

A. Experimental Technique

Design and conduct of nutritional studies involving experimental animals or subjects: statistical analysis and the interpretation of data from such studies: preparation of technical reports of nutrition research. This course includes lectures on specific topics; and the actual conduct and interpretation of one or more research projects, one of which will form the basis of the thesis presented toward the degree sought.

In addition to completion of Course A above and the submission of an acceptable thesis, candidates for the Master of Science degree in Nutrition must register for and complete Biochemistry 5, Department of Biochemistry, McGill. Students must also attend and participate in department seminars.

Household Science graduates may, by arrangement, elect a course in Advanced Dietetics in the School of Household Science.

In individual cases, cognate courses may be added to the above requirements on the advice of the director of research.

DEPARTMENT OF PARASITOLOGY
(Macdonald College)

Professor . . . . . Thomas W. M. Cameron

Assistant Professors . . . . . M. J. Miller, D. Fairbairn

Lecturers . . . . . E. Munroe, L. P. E. Choquette

Adequate laboratory and library facilities are available at the Institute of Parasitology for the courses listed below and for research.

Courses for the Degree of Master of Science

A sound knowledge of general Zoology and of elementary Parasitology are prerequisites.

A, B, and C comprise the main courses and further cognate courses from group E may be chosen, depending on the research problem selected and the candidate's previous training.

Courses for the Degree of Doctor of Philosophy

Candidates should have a degree in which Zoology is an important subject; when the special subject for research is an economic one, qualifications in Human or Veterinary Medicine or Agriculture are desirable; if the special branch of research is in non-economic Animals, a degree with honours in Zoology is desirable. A cognate subject from group E may be selected, but the examination in this should be completed by the end of the second year of study.

A. A Systematic Study of the Animal Parasites of Man, Domestic and Economic Animals.

Three hours. . . . . Professor Cameron

B. Practical Parasitology.

Four hours. . . . . Professor Cameron and lecturer

C. Field Work: Parasitological surveys. Collections in the field. Methods of control.

D. Medical and Veterinary Entomology. (See Department of Entomology, Course D).

Two lectures, three laboratory hours per week, second term.
Professor DuPorte

E. Cognate subjects relative to the subject of research, selected from Nutrition, Biochemistry, Pathology, Pharmacology, Physiology, Entomology, etc., as may be arranged.

DEPARTMENT OF PATHOLOGY

Professor.....G. LYMAN DUFF
Associate Professor.....THEO. R. WAUGH
Assistant Professors.... ROBERT H. MORE, J. E. PRITCHARD

The department offers adequate laboratory and library facilities in the Pathological Institute for morphological or experimental research and for the courses listed below leading to the degrees of Master of Science and Doctor of Philosophy in Pathology.

QUALIFICATION FOR ADMISSION

Candidates for graduate degrees in Pathology must hold the degree of Doctor of Medicine or its equivalent and must have attained high standing in the courses leading to this degree, especially in the preclinical scientific subjects.

Candidates who have not had any previous graduate training in Pathology or whose previous training is judged to be inadequate, will be required to spend a qualifying year of work in the Department before proceeding to a graduate degree.

COURSES FOR THE DEGREE OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY

A. RECENT ADVANCES IN PATHOLOGY.
Lectures on selected subjects in Pathology.
Professor Duff and Staff

B. COLLOQUIUM.
Demonstration and discussion of current surgical and autopsy material from the routine pathological services of the Pathological Institute.
Two hours throughout the session.
Professor Duff, Professor Waugh and Staff

C. CONFERENCES.
Conferences will be held at regular intervals with graduate students for the purpose of guiding their reading and investigative work and for the discussion of special problems arising from their research.

D. Cognate Subjects.
Each student will be required to take certain courses in cognate subjects, the selection of which will depend upon the student's previous training and on the character of the research problem to be undertaken.

Any candidate for a graduate degree may be required to attend the undergraduate course in General Pathology and be prepared to pass a comprehensive examination in this subject.

A candidate for the degree of Master of Science must take courses A, B, and C, and at least one cognate course. The remainder of his time is to be devoted to morphological or experimental research. The quality of the student's investigative work as embodied in his thesis will be the main consideration in recommending him for this degree.

For the degree of Doctor of Philosophy the candidate must take courses A, B, and C, throughout each year of study in addition to his research. Any cognate subjects required must be completed before the end of the second year.

As for the Master's degree, the quality of the research work as embodied in the Ph.D. thesis will be the main consideration in the award of this degree.

DEPARTMENT OF PHARMACOLOGY

Professor.....Raymond L. Stehle
Associate Professor.....K. I. Melville
Assistant Professor.....A. M. Fraser

Adequate laboratory and library facilities are available for the courses listed below and for research.

Candidates for higher degrees must present evidence of suitable preparation in Chemistry and Physiology and must have completed the course in Pharmacology as given to medical students.

Courses for the Degree of Master of Science

A. Advanced Pharmacology.

B. Colloquium.
One hour weekly.

Courses for the Degree of Doctor of Philosophy

Special arrangements can be made for anyone desiring to proceed to a doctorate.

DEPARTMENT OF PHILOSOPHY

Professor . . . . . R. D. MACLENNAN
Visiting Professor . . . . . R. KLIBANSKY
Assistant Professors . . . . . T. G. HENDERSON, C. CURRIE

COURSES FOR THE DEGREE OF MASTER OF ARTS

A. ADVANCED ETHICS.
First term: Contemporary ethical theory.
Second term: Philosophy of Politics.

*B. FUNDAMENTAL PROBLEMS OF PHILOSOPHY.

*C. READINGS IN THE CLASSICS OF PHILOSOPHY, ANCIENT AND MODERN

*D. SEMINAR ON CONTEMPORARY PHILOSOPHY.

E. Seminar courses will be offered on the special fields of Philosophy in which candidates are studying for their theses.

DEPARTMENT OF PHYSICS

Professors . . . . . A. NORMAN SHAW, J. STUART FOSTER
Associate Professor . . . . . H. G. I. WATSON
Assistant Professors . . . . . F. R. TERROUX, J. S. MARSHALL, E. R. POUNDER

Adequate laboratory and library facilities are available for the courses listed below and for research in any of the main branches of physics. Equipments for investigations in nuclear physics, spectroscopy, electrical measurements, electronic physics and geophysics have been specially developed. An electron microscope and X-Ray Diffraction apparatus are available for collaboration in regard to problems in chemistry and biology. A well-equipped new Radiation Laboratory for nuclear physics provides excellent space for at least twenty graduate students. The seventy-five inch McGill Cyclotron is now partially constructed and will be completed in 1947.

With the permission of the Chairman of this Department, qualified graduate students in Physics may apply to take some of their required courses, and to undertake research, at Macdonald College, the remainder of their courses being taken at McGill University in Montreal.

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*These courses are also open to undergraduates.

Courses Available when Physics is chosen as a Minor or as a Cognate Subject

Courses 33, 34, 41, 42, 43, 44, 45 are undergraduate honours courses prerequisite to graduate work in Physics; but they are open to graduate students (1) choosing Physics as a minor or cognate subject, or (2) completing their entrance qualifications for graduate work in Physics.

33. Electrical Measurements.

D-C. instruments and measurements, complete galvanometer theory, instrument calibration; A-C. circuit theory, operational methods, applications; measurements at power, audio, and radio frequencies; measurements with Lecher wires; electronic devices, theory of circuits; elementary radio engineering; construction and testing of simple electrical devices; absolute measurements.

Two hours; laboratory (33L), four hours.....Professor Watson

Reference Books:—Law, *Electrical Measurements* (McGraw-Hill); Hague, *Alternating Current Bridge Methods* (Pitman, London); Reich, *Theory and Application of Electron Tubes* (McGraw-Hill); Harnwell, *Principes of Electricity and Electromagnetism* (McGraw-Hill); Starling, *Electricity and Magnetism* (Longmans).

34. Advanced Heat.

Precision thermometry (for low, intermediate and high temperatures), calorimetry, measurement of fundamental thermal variables, measurement and theory of transfer of heat (by conduction, convection and radiation), change of state, equations of state, elements of kinetic theory, physical basis and mathematics of thermodynamics, thermal equilibrium of systems, engineering and chemical applications.

Two hours (laboratory omitted).....Professor Shaw

Text-book:—Roberts, *Heat and Thermodynamics* (Blackie).

Reference Books:—Kiefer and Stuart, *Engineering Thermodynamics* (Wiley); Lewis and Randall, *Thermodynamics* (McGraw-Hill); Zemansky, *Heat and Thermodynamics* (McGraw-Hill).

41. Mathematical Physics.

Selected topics in potential theory, hydrodynamics, conduction of heat, acoustics, elasticity, electromagnetic theory. Twelve lectures on topics arising in spectroscopy and nuclear physics will be given by Professor Foster.

Three hours.....Professors Gillson and Foster

Reference Books:—Houston, *Introduction to Mathematical Physics* (Longmans); Page, *Introduction to Theoretical Physics* (Van Nostrand); von Karman and Biot, *Mathematical Methods in Engineering* (McGraw-Hill).

42. Electromagnetic Theory. (Half course)

Vector treatment of electro- and magneto-statics; vector calculus; Maxwell's equations; boundary conditions; Poynting vector; electric waves; reflection and refraction of plane waves; propagation of waves in metals and dispersive media; wave guides (parallel plane, rectangular and circular) without and with attenuation; measurement technique; radiation from a dipole and from an antenna.

One hour.....Professor Watson

Text-book:—Sarbacher and Edson, *Hyper and Ultra-High Frequency Engineering* (Wiley).

Reference Book:—Pierce, *Electric Oscillations and Electric Waves* (McGraw-Hill).

43. Atomic Physics.

Review of classic experiments of atomic physics; determination of physical properties and constants of atoms, ions and electrons; mass-spectrograph, elements of thermionics and photo-electricity, X-ray analysis, cosmic rays, atomic structure; radiation absorption and emission, advent of quantum theory and wave-mechanics, philosophical problems in modern physics.

Two hours.....Professor Shaw

Three hours laboratory (43L) per week.....Professor Marshall

Text-book: — Crowther, *Ions, Electrons and Ionizing Radiations* (E. Arnold).

Reference Books:—Richtmeyer, *Introduction to Modern Physics* (McGraw-Hill); Strong, *Procedures in Experimental Physics* (Prentice-Hall); Brown, *Foundations of Modern Physics* (Wiley); Stranathan, *The "Particles" of Modern Physics* (Blakiston).

44b. Radioactivity. (Half course)

The phenomena of radioactive disintegration and the laws of transformations of successive products. The nature and properties of the radiations, methods of detection and of measurement. Mechanisms of absorption and scattering. Neutrons, positrons and the constitution of nuclei. Methods of producing artificial disintegrations and their products. Introduction to nuclear physics.

Second term, two hours. Laboratory, second term, three hours (held with 43L).....Professor Terroux

Reference Books:—Rutherford, Chadwick and Ellis, *Radiations from Radioactive Substances* (C.U.P.); Hevesy and Paneth, *A Manual of Radioactivity* (C.U.P.).

45. Advanced Light.

The essentials of geometrical and physical optics with advanced laboratory work. Electromagnetic theory, interference, diffraction, polarization, simple spectrum analysis, determination of fine structure of spectral lines, Zeeman effect, and the theory and use of optical apparatus (e.g., glass and quartz spectrographs, Lummer plates, interferometers and polarimeters.)

First term, two hours; second term, one hour. Laboratory (45L), three hours . . . . . Dr. McPherson

Text-book:—Houston, *Light* (Longmans).

Reference Books:—Robertson, *Physical Optics* (Van Nostrand); Wood, *Physical Optics* (Macmillan); Drude, *Optics* (Longmans).

Courses for Students Proceeding to the Degrees of M.A., M.Sc. or Ph.D. in Physics

61. Quantum Theory and Spectrum Analysis. (Half course)

Design and use of spectrographs, including methods of qualitative and quantitative spectrum analysis. Development of quantum theory as applied to atomic and molecular spectra. Quantum mechanics applied to atoms in electric and magnetic fields. Problems.

First term, two hours; second term, one hour . . . . . Professor Foster

Reference Books:—Birtwistle, *Quantum Theory of the Atom* (C.U.P.); Ruark and Urey, *Atoms, Molecules and Quanta* (McGraw-Hill).

62. Quantum Mechanics. (Mathematics 62). (Half course)

This course is elementary in character, and will include quantum mechanics of simple systems, perturbation theory, elements of quantum statistical mechanics, group theory, and simple applications.

First term, one hour; second term, two hours . . . . . Professor Wallace

63. Advanced Electricity and Magnetism.

Advanced theory and problems concerning:—Electrostatics—images, transformations, coefficients, properties of dielectrics. Current electricity—conduction in infinite solids, circuit theory, loci, non-linear elements, transients, Heaviside's operational methods, power machinery and transformers. Electronic devices and circuits. Conduction in gases, associated devices and circuits. Magnetic effects and circuits. Elementary electromechanics.

Two hours . . . . . Professor Watson

Text-book:—Harnwell, *Principles of Electricity and Electromagnetism* (McGraw-Hill).

Reference Books:—Pender and McIlwain, *Electrical Engineers' Handbook, Vol. V* (Wiley); Carter, *Electrical Transients* (C.U.P.); Priesman, *Graphical Constructions for Vacuum Tube Circuits* (McGraw-Hill); Lee, *Graphical Analysis of A-C Circuits* (Medaugh, Johns Hopkins); Terman *Radio Engineers' Handbook* (McGraw-Hill); Terman, *Radio Engineering* (McGraw-Hill); Reich, *Theory and Application of Electron Tubes* (McGraw-Hill).

64. THERMODYNAMICS. (Half course)

Physical basis and fundamental assumptions. Relative importance,—and relative bearing on applications,—of the equation of state and the first and second laws. Mathematical methods in thermodynamical analysis. Simple and complex systems. Selected applications in physics, chemistry and engineering. Introduction to statistical thermodynamics.

Two hours (First term, lectures; second term, colloquia.)

Professor Shaw

Reference Books:—Birtwistle, *Thermodynamics* (C.U.P.); Guggenheim, *Modern Thermodynamics* (Methuen); Fowler and Guggenheim, *Statistical Thermodynamics* (C.U.P.).

65. STATISTICAL MECHANICS AND KINETIC THEORY OF MATTER (Mathematics 65).

(Offered in alternate years, '47-'48, '49-50' etc.)

A course in classical and quantum statistical mechanics with selected applications; statistical theories of the gaseous, liquid and solid states.

Reference Books: Mayer and Mayer, *Statistical Mechanics* (Wiley); Lindsay, *Physical Statistics* (Wiley); Fowler, *Statistical Mechanics* (C.U.P.); Schrodinger, *Statistical Thermodynamics* (C.U.P.); Rice, *Statistical Mechanics* (Constable, London); Kennard, *Kinetic Theory of Gases* (McGraw-Hill); Loeb, *Kinetic Theory of Gases* (McGraw-Hill).

Two hours . . . . . Professor Wallace

66. ELECTRON THEORY. (Half course)

The analytical methods and general development of electron theory are illustrated by detailed discussions of topics selected from the following list. Dispersion, absorption and reflection of electromagnetic waves. Metallic conduction. Dielectrics. Magnetism. Emission of electrons from surfaces. Photo-conductance. Electro-dynamics of moving charges. Electron optics.

Two hours (First term, lectures; second term, colloquia).

Professor . . . . . .

Reference Books:—Richardson, *Electron Theory* (C.U.P.); Lorentz, *Theory of Electrons* (Stechert); E. Bruche and O. Scherzer, *Electronen Optic* (J. Springer).

67. Nuclear Physics Seminar.

The theory and the development of modern nuclear physics. The cyclotron and its applications. Current nuclear research.

Two hours.....Professor Foster

68. Advanced Statics, Dynamics, Hydrodynamics and Sound.*

Text-books:—Lamb, *Higher Mechanics* (C.U.P.).

Reference Books:—Lamb, *Dynamical Theory of Sound* (Arnold); Bateman, Dryden and Murnaghan, *Hydrodynamics* (N.R.C., U.S.A.); Goldstein, *Fluid Dynamics* (Clarendon).

Two hours.

71. Applied Geophysics.. (Half course)

If course 47 (see Arts and Science bulletin) has not been taken, it should be attended concurrently with this course. Selected topics as enumerated in course 47 are given more advanced mathematical treatment. Supplementary theory, problems and analysis of field results are added. Arrangements for practical experience in the field will be made, when possible.

Second term, two hours.....Professor Watson

Text-book:—Eve and Keys, *Applied Geophysics*, 2nd edition (C.U.P.)

Reference Books:—Ambronn, trans. Cobb, *Elements of Geophysics* (McGraw-Hill); Heiland, *Geophysical Exploration* (Prentice-Hall).

72. Communication Networks.† (Primarily for electrical engineers. Alternate years, '48-'49, etc.)

A-C. series and parallel circuit constants; transfer relations. Graphical treatment; operators; transformations. Circuit theory,—series and parallel viewpoints. Circuit theorems. Passive quadripole. Constant-k and m-derived filters. Coupled circuits; transients; Heaviside's operators; circuit loci; generalized bridge circuits; non-linear elements; harmonic analysis; oscillators; iterant lines; elementary wave-guide theory.

Two hours..... Professor Watson

Reference Books:—Harnwell, *Principles of Electricity and Electromagnetism* (McGraw-Hill); Pender and McIlwain, *Electrical Engineers' Handbook, Vol V* (Wiley); Carter, *Electrical Transients* (C.U.P.); Priesman, *Graphical Constructions for Vacuum Tube Circuits* (McGraw-Hill); Hague, *A-C Bridge Methods* (Pitman); Lee, *Graphical Analysis of A-C. Circuits* (Medaugh, Johns Hopkins); Terman, *Radio Engineers' Handbook* (McGraw-Hill).

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*Not offered in '47-'48.

†Part of an evening course in Electrical Communication Engineering leading to the degree of M.Eng. (See course II F, page 1844)

73. RADIATION.* (Primarily for electrical engineers.)

Properties of magnetic and electric fields; Maxwell's equations; Poynting vector; electric waves; reflection and refraction of plane waves; propagation in metals and dispersive media; wave guides—without and with attenuation; cavity resonators; radiations from a dipole; antennae; horns; reflectors; generation and reception of ultra-high frequencies; measurement technique.

Two hours.....Professor.....

Reference Books:—Sarbacher and Edson, *Hyper and Ultra-High Frequency Engineering* (Wiley); Skilling, *Fundamentals of Electric Waves* (Wiley); Harnwell, *Principles of Electricity and Electromagnetism* (McGraw-Hill); Terman, *Radio Engineers' Handbook* (McGraw-Hill).

In addition to the above courses, a review of the general requirements for the preliminary examinations for the degree of Ph.D. is given in a weekly seminar under the guidance of the professors of the department.

A suitable selection of the above courses may be made by qualified students when Physics is taken as a partial, a minor or a cognate subject. A general examination on elementary physics is also given when Physics is taken as a minor subject.

Requirements for Master's Degree and First Year Ph.D.:—Courses 61, 62, 63 (or Mathematics 71 in certain approved cases), 64 (or 66) and Mathematics 61; should usually be chosen in the first year of graduate work.
(Attendance at 67 is recommended for both first and second years.) Research, and thesis for Master's degree.

Second Year Ph.D:—Preparation for "preliminary examinations." Course 67. One optional course in physics, mathematics or cognate subject. Research.

Third Year Ph.D.—Research, thesis, preparation for final oral. One additional course may be required.

Attendance at meetings of the Physical Society, Journal Club, and Colloquium, together with the presentation of papers, form an important element in the training of M.Sc. and Ph.D. students.

DEPARTMENT OF PHYSICS

(Macdonald College)

Associate Professor.....W. ROWLES

Assistant Professor.....W. F. OLIVER

The courses below may form part of the required courses for graduate students in Physics (see page 1875), or may be taken by students in other departments as a minor or cognate subject (see page 1818).

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*An evening course, not offered in 1947-48.

Courses Available to Graduate Students

A. Advanced Biophysics.

2 hours, 2nd term.....Professor Rowles
(Given in 1948-49).

B. Theory of Probability.

2 hours, 2nd term.....Professor Oliver
(Given in 1947-48)

DEPARTMENT OF PHYSIOLOGY

47/48

Professor.....H. E. Hoff
Research Professor.....B. P. Babkin
(Post Retirement)
Associate Professor.....N. Giblin
Assistant Professors.....S. Dworkin, Ronald Grant
Lecturer.....Kathleen Terroux
Demonstrator.....Rhoda Grant

Adequate laboratory and library facilities are available for the courses listed below and for research.

Courses for the Degree of Master of Science

A. Applied Physiology.....
B. Lectures on Selected Advanced Topics..... — Professors Hoff, Giblin, Dworkin and Grant
C. Advanced Laboratory.....
D. Physiological Colloquium.
E. Lectures on Conditioned Reflexes.....Professor Dworkin

Requirements for the Degree of Doctor of Philosophy

Courses for a second year, toward the degree of Doctor of Philosophy, may be selected from those set forth above which have not already been taken in the first year of graduate study.

DEPARTMENT OF PLANT PATHOLOGY

(Macdonald College)

Associate Professor.....J. G. COULSON

Assistant Professors.....{R. A. LUDWIG, H. J. SCOGGAN

Adequate laboratory and library facilities are available for the courses listed below and for research.

Candidates must have completed satisfactory undergraduate courses in Plant Morphology, Physiology, Taxonomy, Histology and Cytology. Specialists in Plant Pathology should possess a general knowledge of the fundamental practices in Agronomy and Horticulture.

COURSES FOR THE DEGREES OF MASTER OF SCIENCE AND DOCTOR OF PHILOSOPHY

A. HISTORY OF PLANT PATHOLOGY. One lecture for one term. Extra reading required.

Text-book:—History of Phytopathology—Whetzel (Saunders).

B. ADVANCED MYCOLOGY. Two lectures and two laboratory periods. A general course in Systematic Mycology is a prerequisite.

Text-books:—Comparative Morphology of the Fungi—Gaumann and Dodge (McGraw-Hill), Plant Disease Fungi—Stevens (Macmillan), A Text-book of Mycology—Bessey (Blakiston).

C. ADVANCED PLANT PATHOLOGY.

Two lectures and two laboratory periods.....Professor Coulson

Text-book:—Manual of Plant Diseases—Heald (McGraw-Hill).

D. PRINCIPLES OF PLANT PATHOLOGY. Two lectures and three laboratory periods per week for two terms.....Professor Coulson

E. PLANT PHYSIOLOGY (Course A or C—Department of Botany).

F. SEMINAR.—A course entailing reading, discussion, appreciation and criticism of research articles, monographs, etc.

One period per week.....Professor Coulson and staff

Candidates for the Master's degree and first year Ph.D. students must satisfy the requirements of courses F and two from B, C, and D.

Second year Ph.D. students are required to take course F and all other courses listed above which were not taken during the previous year.

Third year Ph.D. students devote most of their time to research and the writing of a thesis. A candidate may be held responsible for a course in a cognate subject bearing upon his research.

The Ph.D. degree in Plant Pathology is offered in close association with the Department of Botany. The preliminary oral examination is conducted jointly by both departments. The research and thesis must be in the field of Plant Pathology.

DEPARTMENT OF PSYCHOLOGY

Professors . . . . . R. B. MacLeod, C. E. Kellogg, D. O. Hebb

Associate Professors . . . . . N. W. Morton*, _____

Assistant Professors . . . . . F. S. Alexander, _____, _____

Assistant Professor of Industrial Psychology . . . . . E. C. Webster

Graduate work in the Department of Psychology is designed to prepare students for the M.A., M.Sc., and Ph.D. degrees. The standards of achievement represented by these degrees are measured in terms not merely of courses taken but of demonstrated competence in the general field of psychology and in the specialized fields in which the candidate is working. Each candidate will be expected to enroll in such courses and seminars and to submit himself for such examinations as are deemed advisable by the Department.

The graduate work of the department is organized about certain fields of specialization. In each field the department offers an advanced course, consisting of at least two hours per week of lecture or conference and at least four hours per week of supervised laboratory, clinical or field work. Examinations will normally be required in all courses, although at the discretion of the department an examination may be waived if the content of the course is to be covered in the comprehensive examination for the Master's degree or in the preliminary examination for the Ph.D.

A. Experimental psychology.

B. Comparative and physiological psychology.

C. Developmental psychology.

D. Social psychology.

E. Psychology of personality, normal and abnormal.

F. Clinical psychology.

G. Educational psychology.

H. Industrial psychology.

I. Statistical methodology.

*On leave of absence.

The following undergraduate courses are open to graduate students (see Announcement of the Faculty of Arts and Science):

43. Modern Psychology in Historical Perspective.
44. Advanced Experimental Psychology.
50. Special Problems Seminar.
51a. Theory, Techniques and Interpretation of Mental Measurements.
52b. Measurement of Intelligence.
53b. Measurement of Personality.
54b. Personnel Selection and Vocational Guidance.

Requirements for Admission to Graduate Standing

In addition to the general University requirements the student must have completed the following undergraduate courses or their equivalents:

(a) *In Psychology:* Introduction to Psychology (full year), Experimental Psychology (full year), Psychological Statistics (full year), plus three further full years of psychology, of which not more than one year of Applied Psychology will be credited;

(b) *In related subjects:* at least one full year each of Biology (including Physiology), Social Science (Economics, Political Science, or Sociology), and Philosophy.

Students who fail to meet these requirements may be registered as qualifying students until they have completed the necessary undergraduate courses.

All applicants will be expected to submit with their application the results of the Graduate Record Examination.

Requirements for the M.A. and M.Sc. Degrees

Candidates must demonstrate (a) sound knowledge of the fundamentals of general psychology, (b) evidence of competence in at least two fields of specialization, and (c) evidence of ability to do independent and original research.

Work towards the Master's Degree will require the equivalent of at least one full year of resident graduate study, and will normally be distributed as follows:

(1) History of Psychology and Systematic Psychology—equivalent of a one year course. (Undergraduate Course 43).

(2)and(3)Advanced courses, beyond the undergraduate level, in at least two related fields of specialization.

(4) A thesis, based on independent and original work done under the supervision of a member of the Department.

At the discretion of the Department a written or oral examination may be required, covering:—

(a) General psychology,

(b) History of psychology and systematic psychology,

(c) The Thesis, and

(d) The specialized field or fields in which the thesis has been written.

REQUIREMENTS FOR THE Ph.D. DEGREE

1. *Residence:* See paragraph 44.

2. *Foreign languages:* See paragraph 52.

3. *Preliminary examination* (See paragraph 49): Four papers, distributed as follows:

   (a) One paper on General Psychology, History of Psychology and Philosophy, Systematic Psychology.

   (b) One paper on Experimental Psychology, including laboratory and statistical methods.

   (c) and (d) Two further papers, at least one of which must be chosen from Group I below:

   Group I

   1. Comparative and physiological psychology.
   2. Developmental psychology.
   3. Social psychology.
   4. Personality, normal and abnormal.
   5. Advanced statistics.

   Group II

   6. Clinical psychology.
   7. Educational psychology.
   8. Industrial psychology.
   9. A related field (minor).

4. *Thesis:* See paragraph 53.

DEPARTMENT OF SOCIOLOGY

Professor ..... C. A. DAWSON

Associate Professors ..... F. LAVIOLETTE, OSWALD HALL

Instructors ..... AILEEN ROSS, NATHAN KEYFITZ

The Department especially encourages research in Canadian subjects, such as: the peculiarities of Canadian culture and social organization; the

development of regional factors in Canadian affairs; frontier communities; the Canadian city; immigration and race relations; population and related problems; social institutions; crime, delinquency, and other forms of social disorganization.

Students transferring to McGill University are advised to submit with their application for admission a copy of the results of the Graduate Record Examination.

Courses for the Degree of Master of Arts

*A. The Community.

Three hours.....Professor Dawson

*B. Racial and Ethnic Groups.

Cultural incorporation, long-term trends in the social adjustment of nationalistic minorities.

2nd term, three hours.....Professor Dawson
(Not given in 1947-48)

*C. Criminology.

1st term, three hours.....Professor LaViolette

*D. Social Origins.

1st term, three hours.....Professor LaViolette

*E. Social Movements.

2nd term, three hours.....Professor LaViolette
(Not given in 1947-48)

*F. The Family.

1st term, three hours.....Miss Ross

*G. The Sociology of the Child.

2nd term, three hours.....Miss Ross

*H. Introduction to Social Statistics.

Two hours.....Mr. Keyfitz

*I Statistical Methods.

Multiple correlation; analysis of variance; tests of significance; sampling procedures; life tables; vital rates; construction of questionnaires and scales.

Two hours.....Mr. Keyfitz

*Note.—The starred courses are also undergraduate honours courses and are described in the Announcement of the Faculty of Arts and Science. Additional work will be required of graduate students who take such courses.

*J. Social Attitudes and Personality.
(Not given in 1947-48) ..... Professor LaViolette

*K. Social Institutions. Professor Laviolette

L. Reading in Social Theory. Professor Hall

M. Seminar. Professor Dawson

*N. Sociology of Industrial Institutions.
Three hours ..... Professor Hall

*O. Population and Migration.
Three Hours ..... Professor Hall

DEPARTMENT OF ZOOLOGY

Strathcona Professor ..... N. J. Berrill

Professor ..... John Stanley

Assistant Professors ..... M. J. Dunbar, R. H. Scott

Lecturer ..... M. J. Henderson

Professor of Parasitology and Director of the Institute of Parasitology at Macdonald College. Special lecturer ..... T. W. M. Cameron

Adequate laboratory and library facilities are available for research. The Blacker and Wood zoological libraries comprise over 40,000 volumes.

Courses exclusively for graduate students are not offered, but the following advanced courses are available to graduate students when desirable.

Graduate students are expected to take such courses and also cognate courses in other departments that relate to their particular line of specialization, if not previously taken. Primary emphasis for both the degree of M.Sc. and Ph.D. is placed upon research and thesis presentation.

A. Comparative and Experimental Embryology. Professor Berrill

B. Advanced Vertebrate Zoology. Professor Dunbar

C. Invertebrate Biology. Professor Stanley

Graduate students are expected to attend the Biological Seminars.

*Note.—The starred courses are also undergraduate honours courses and are described in the Announcement of the Faculty of Arts and Science. Additional work will be required of graduate students who take such courses.

LIBRARIES

All resident graduate students have access to the Redpath Library, containing over 300,000 volumes. The building also houses a number of special collections, such as the Blacker Library of Zoology. The Libraries of Engineering and of Medicine are housed in the Engineering and Medical buildings; the latter includes much of the material for the medical sciences, and a separate room contains the Osler Library, devoted principally to medical history. There are special libraries for Commerce and Law (housed in Purvis Hall), and at Macdonald College. A number of Departments maintain special libraries, of which the most extensive are in Chemistry, Geology, and Physics. All of these collections may be consulted by resident graduate students, though the hours for reading and the conditions under which books may be consulted or borrowed are not the same in all cases.

McGILL UNIVERSITY

MONTREAL

LIBRARY SCHOOL

1947 - 1948

CALENDAR—1947-48

1947

September 19, Friday and September 20, Saturday morning. Students register in the Library School.

September 22, Monday. Lectures begin in the Library School.

December 12, Friday. First term ends in the Library School.

December 16, Tuesday, to December 19, Friday. Examinations in the Library School.

1948

January 5, Monday. Lectures resumed in the Library School.

Library School Trip. Dates to be announced.

March 26-29. Easter Vacation.

May 1, Saturday. Lectures end in the Library School.

May 4, Tuesday, to May 7, Friday. Examinations in Library School.

May 10, Monday, to May 22, Saturday. Practice work in the Library School.

May 26, Wednesday. Convocation.

McGILL UNIVERSITY

ADMINISTRATIVE OFFICERS OF THE UNIVERSITY

Principal.....F. Cyril James, Ph.D., D.C.L., LL.D.

Bursar.....William Bentley, C.G.A., A.C.I.S.

Registrar.....T. H. Matthews, M.A.

LIBRARY SCHOOL STAFF

Director of Library School and Professor of Library Administration.G. R. Lomer, M.A., Ph.D., F.L.A.

Assistant Professor of Library Administration.....Vernon Ross, M.A., B.S.

Lecturer in Cataloguing and Classification.....Virginia Murray, M.A., B.L.S.

Secretary and Reviser.....Grace Reynolds, L.S. Certificate

SESSIONAL LECTURERS

Library Buildings.....J. Campbell Elder, B.Sc.

Circulation.....Grace Hamlyn, B.A., B.L.S.

Government Documents.....Helen Haultain

Public Libraries.....Kathleen Jenkins, B.A.

College Libraries.....Richard Pennington, M.A.

Special Libraries.....Beatrice Simon, B.A., L.S. Diploma

Library Work with Children.....Grace Reynolds, L. S. Certificate

McGILL UNIVERSITY

LIBRARY SCHOOL

The purpose of the School is to provide college graduates with the basic training, both theoretical and practical, necessary for professional library work in a variety of fields. In addition to fundamental courses in library methods and administration, the School offers advantages and opportunities in training for special libraries and college libraries and for library work with children, as it is situated in a large city which provides examples of libraries of all types and is part of a university with a recognized high standard of scholarship.

The McGill University Library School was the first institution in Canada to offer professional library training. Plans for a sessional Library School at McGill University were made in the Spring of 1904 by Mr. C. H. Gould, then Librarian, in consultation with Dr. Melvil Dewey, Director of the New York State Library School at Albany, and in the summer of that year instruction was provided in a summer session which was repeated in 1905, 1907, 1910-11, 1913-14, 1920-24, 1926 and 1927.

Owing to continued demands for more adequate training in a rapidly developing profession, Dr. G. R. Lomer, who succeeded Mr. C. H. Gould in 1920, proposed in 1921 the establishment of a sessional course, and this was approved by Corporation in the same year and by the Governors early in 1922. The realization of these plans was made possible by the co-operation of the Carnegie Corporation with McGill University, and the first winter course under the auspices of a Canadian university opened in October, 1927. It was then accredited by the Board of Education for Librarianship of the American Library Association. In 1930 the Corporation of McGill University approved the raising of the entrance requirements, and the Library School became a graduate School, with the power of conferring the degree of Bachelor of Library Science, and was accredited on this new basis by the Board of Education.

EQUIPMENT

The Library School occupies quarters conveniently situated in the Redpath Library and consisting of a lecture room (equipped with lantern and refractoscope), staff offices, reading room containing professional books and periodicals, and study rooms with individual desks and typewriters for students. The students have access to all parts of the University Library, including the book stacks.

DEGREE OF BACHELOR OF LIBRARY SCIENCE

Candidates who successfully complete all the required work of the School are entitled to receive the degree of Bachelor of Library Science (B.L.S.) at the May Convocation and to wear the regulation black Bachelor's gown and a Bachelor's hood of black lined with burnt orange silk and trimmed with white rabbit fur. Academic costume for graduation may be rented from the Bursar's office.

REQUIREMENTS FOR ADMISSION

1. Applicants for admission to the course leading to the degree of Bachelor of Library Science must have a Bachelor's degree from a recognized college or university and must present an official transcript of their college record.

2. Experience has shown that applicants *over thirty-five years of age* should not be encouraged to enter the School, as they usually find intensive study difficult and are at a disadvantage in applying for positions.

3. As no one with serious physical defects, personality difficulties, or ill health can readily obtain a position in library service, such persons should not ask admission to the School.

4. Applicants for admission must fill in the School Application Form and attach thereto a recent photograph and an advance fee of $10.00 which will be credited to the student's fee account. Should the application be rejected, this advanced payment will be refunded. No refund will be made in the case of a student who withdraws after the application has been accepted.

5. Students are advised before entering to acquire proficiency in the operation of a typewriter, since the greater part of the work done must be in typewritten form.

PLACEMENTS

While the School does not guarantee positions to graduates and will not recommend any with less than a "B" average, it makes an effort to help its graduates find suitable positions. Complete records are kept in the Library School files and transcripts and letters of reference are sent to prospective employers on request.

Any graduate of an approved university who also has successfully completed the degree of Bachelor of Library Science at McGill University will be entitled without further examination to the Specialist's certificate which is issued to Librarians serving in the Protestant High Schools of the province.

MEDICAL EXAMINATION

1. Health Certificate:

Students when applying must present a certificate of health on a form which may be obtained from the school and which should be filled in and signed by a physician.

2. VACCINATION:

All students entering the University are required by the Provincial Board of Health to present a certificate, or other satistactory evidence, of successful vaccination within seven years, or of insusceptibility to vaccine within five years, failing which they must immediately be vaccinated in a manner satisfactory to the Medical Examiner.

3. MEDICAL EXAMINATION:

To promote their physical welfare, all men and women in the school are required to be medically examined at the beginning of the session. The hours of examination are announced at the time of registration.

REGISTRATION AND ATTENDANCE

REGISTRATION:

1. Students in the Library School are required to present themselves at the office of the Library School on Friday, September 19, or Saturday, September 20, preceding the commencement of lectures, in order to furnish the information necessary for the University records.

ATTENDANCE:

1. Students are required to attend at least seven-eighths of the total number of lectures or laboratory periods in any one course.

2. Excuses for absence on account of illness or domestic affliction are dealt with only by the Director of the School. Medical certificates covering absences must be presented by the student immediately after his return.

3. Those whose unexcused absences exceed one-eighth of the total number of lectures in a course are not permitted to take the regular exanination in that course; and those whose unexcused absences have exceeded one-fourth of the total number of lectures must repeat the work in that course for credit.

FEES AND EXPENSES

1. FEES:

a. Regular students:

Fees are due and payable at the Bursar's Office on September 22, but they will also be received before that date. After September 24 or February 3 (as the case may be), an additional fee of $2.00 is charged.

Fee for the Library Course (including Library Visits)..... $268.50

By instalments:

First instalment.....	95.00
Second instalment.....	178.50

These fees include registration, instruction, (including Library Visits) the use of the Library, health service, athletics, subscription to the *McGill Daily*, and graduation diploma.

Fee for each supplemental examination	5.00

b. Partial students:

Fee for partial students, per point	15.00
Library fee for partial students taking less than two points, unless already registered at McGill	4.00
Certificate for partial students	1.00

Immediately after September 24 (or February 3, in the case of students who pay by instalments), the Bursar will send to the Director of the School a list of registered students who have not paid their fees. Such students cannot be re-admitted to classes except on presentation of a receipt signed by the Bursar certifying the payment of the necessary fees.

2. Textbooks and Materials:

Students should allow approximately $35.00 for text books. Blank forms, cataloguing cards, and other library supplies needed during the session may be purchased at cost from the Secretary of the School. Portable typewriters may be rented, for use in the School only, at the rate of $1.00 per month.

3. Library Visits

A week's visit, under the direction of members of the Faculty, to libraries in other cities is a required part of the Library Course. (See 1*a* above.)

4. Board and Residence:

Information about approved boarding and lodging houses may be obtained on application to the Secretary of the School.

5. Clubs and Societies:

Students are encouraged to take advantage of the privileges offered to members of the Canadian Library Association, the Quebec Library Association, the Special Libraries Association, and the American Library Association. Women students of the School are eligible for membership in the University Women's Club, 3492 Peel Street, in the immediate neighbourhood of the School.

SCHOLARSHIPS

The Ethelwyn M. Crossley Scholarship Fund, founded in honor of a former student of the school, is available, on application and after due investigation and recommendation, to deserving students who require financial assistance to take the course. The amount available annually is about $60.00.

The Elizabeth G. Hall Scholarship Fund was established in 1946 for the assistance of students. Application should be made to the Director.

PARTIAL STUDENTS

A limited number of qualified students who are not candidates for the degree may be admitted to individual courses as partial students. Before registration such students must satisfy the Faculty of the School of their ability to follow the courses selected, and they must fulfil all requirements of classroom work and tests prescribed for regular students of these courses. A certificate of attendance may be obtained on application to the Registrar of the University accompanied by the required fee: but no certificates shall be given for attendance at lectures unless the corresponding examinations have been passed.

EXTENSION COURSES

Evening extension courses in library subjects, when given, are announced in the bulletin of the Extension Department of McGill University, which may be obtained in September on application to that Department. The following extension courses have been offered: History of the Book, Library Work with Children, Book Selection, Reference, Cataloguing and Classification, Administration of Libraries, Bookbinding, Retail Bookselling, and Hospital Libraries.

Special evening courses for Teacher-Librarians and for volunteer workers will be provided, if there is sufficient demand, giving instruction in the organization and management of school libraries, the selection and use of books for children, library work with pupils, and co-operation with the teaching staff. Further information may be obtained from the Secretary of the School.

SPECIAL LECTURES

The students have the benefit of occasional special lectures from visiting Librarians or local specialists. During recent sessions the following talks were among those given: Mr. Angus Mowat, on "Libraries in Canada"; Mrs. R. W. Klinck on "Lettering Manuscripts"; Miss Avis Fyshe on "Illuminating Manuscripts"; Miss Alice Johannsen, Assistant

Curator of the McGill University Museums, on "Museum Labels" and "Work with Children"; Miss Betty Jacques of the Art School of the Art Association on "Posters and how they are made"; Mr. R. A. Hamilton on "The Literature of China"; Miss Elizabeth Morton on "The Canadian Library Council"; Dr. Alice Bryan, School of Library Service, Columbia University, on "Personnel problems"; Dr. H. Walter on "German for librarians"; Dr. Mary Duncan Carter on "Library Publicity"; Mr. E. C. Kyte on "Old English Libraries"; and Mr. D. Tunstell on "Film Libraries".

DESCRIPTION OF COURSES

The courses provided by the School are based upon the needs and opportunities presented by the librarian's four-fold relation to: the building in which his library is housed, the books and periodicals in his charge, the readers whom he serves, and the staff with whom he works. In teaching the various subjects of the curriculum, every effort is made to relate them to library work as a whole and to develop a dynamic rather than a mechanical point of view with regard to the present practice and the future possibilities of the profession.

Whenever possible, the past history, the practice of today and the probable future development of library activities are related, and students are encouraged to assume an attitude that is constructively critical and forward-looking rather than one that is merely imitative, conventional, and retrospective. The work of the School is grouped under the following headings for convenience of instruction: 1. Organization and administration of libraries. 2. The acquisition and care of library materials. 3. The selection and use of library materials. 4. Library practice.

In order to complete the requirements for the degree, as approved by the University on the recommendation of the Board of Education for Librarianship, students must take the following courses:

(a) *Required courses:* 1, 2, 5, 6, 7, 10, 11, 13, 14, 15, 16, 18.

(b) *Elective courses:* Students will take group 3, 4, 9, *or* 8, 12, 17. Permission will be given to audit elective courses not taken for credit.

I. ORGANIZATION AND ADMINISTRATION OF LIBRARIES

This group of courses is planned to give the future librarian a general idea of the ideals, functions, and successful running of libraries of different types. It is concerned with the place of the library in the community, the duties and opportunities of the librarian, and his relation to the trustees, staff, and readers. These courses form both framework and background for the more detailed instruction in technique and specialized services.

1. ORGANIZATION AND MANAGEMENT—Miss K. Jenkins and Dr. Lomer, 24 Lectures.

After an introductory survey of the relation of the library to other educational institutions the student becomes familiar through lectures and required reading with such topics as: the underlying principles of business and service organization; elements of library administration; the appointment, qualifications and duties of trustees; committees, meetings and minute book; the library budget, distribution of funds and accounts; statistics and reports; supplies and stock, inventory and checking stock; the qualifications of assistants, staff appointments and records, personnel management and work schedules; legislation affecting libraries in Canada; and the ethics of librarianship.

2. HISTORY OF BOOKS AND LIBRARIES—Dr. Lomer, 52 Lectures.

This course of lectures deals with the development of the arts of record from prehistoric times and provides the student with the cultural, historical, and technical background of writing materials, books and libraries. After the early forms of picture writing, the papyri of the Egyptians and the cuneiform records of the Babylonians and Assyrians are considered, some attention is given to the production and care of manuscripts in classical times, followed by a study of the illuminated medieval manuscripts and monastic libraries. The latter part of the course includes the manuscripts of the Far East and the invention of paper and printing in China, the development of printing in Europe, the description of incunabula, modern typography, preparation and editing of copy for the printer and proof-reading, processes of illustration, bookplates, manuscripts and autograph letters, first editions, and a brief summary of library development in Europe and America.

The course is illustrated throughout by lantern slides and by examples from the Library Museum, and is supplemented by required reading and by visits to museums in Montreal and other large cities.

3. LIBRARY EXTENSION AND ADULT EDUCATION—Miss V. Ross, 12 Lectures (*Elective*).

The history of library extension in municipal and rural areas of Canada and other countries is covered. The importance of the public library as

an active agent in solving typical present-day problems of adult education is stressed. This includes a study of the social structure of the community; an estimation of the reading capacities, interests and needs of the people by means of library surveys; methods of improving the educational level and of supplying vocational guidance through readers' advisory work, instruction in the use of books and libraries, and visual and auditory services.

4. Library Publicity and Exhibits—Dr. Lomer and Miss V. Ross, 16 Lectures (*Elective*).

This course explains the principles of library publicity as applied to effective advertising; how to organize library campaigns, friends of the library groups; methods of co-operation with outside agencies. The work of museums and the technique of arranging library exhibits and schedules are explained, and practice is afforded in arranging exhibits and making labels and posters.

5. Circulation—Miss G. Hamlyn, 8 Lectures.

The organization of the circulation department is studied, including equipment; registration of borrowers; a comparative study of the different methods of charging books; regulations and fines; supervision of reading room and stack; information; statistics. Practice at the circulation desk of various local libraries is given.

6. Library Buildings and Equipment–Mr. J. Campbell Elder, 8 Lectures.

In this course the following subjects are discussed: basic principles and fundamentals in library planning; reading of architect's plans; the planning of small public libraries and branch libraries; special libraries and private collections; furniture and equipment; heating, ventilation, and lighting.

The lectures are illustrated by specially prepared diagrams. Students are required to work out simple planning problems illustrating topics considered in the course.

7. College and University Libraries—Dr. Lomer and Mr. Richard Pennington, 8 Lectures.

After a brief survey of the historical development of college libraries, their present organization and problems are considered, including service to undergraduates, research students, and staff; departmental libraries; special collections and reading rooms; teaching the use of the library; the allocation of funds; dormitory libraries; inter-library loans; and such technical processes as differ from those in public and other libraries.

8. Special Libraries—Miss B. Simon, 24 Lectures (*Elective*).

This course is designed to present the purpose and point of view of the special library and to discuss the adaptation of general library techniques

to its needs. Special attention is paid to the organization and administration of research libraries in business and industry, and the libraries of societies, foundations and similar institutions. Research methods and sources of information peculiar to each field are surveyed and discussed. Practice work in selected special libraries is provided and visits are made to outstanding types of special libraries in Montreal and other large cities.

9. Library Work with Children—Miss G. Reynolds, 24 Lectures. (*Elective*).

School library work as covered in this course shows the adaptations necessary in cataloguing and classification, reference work, book selection and general administration to serve the needs of the modern school. Methods of teaching students the use of books and libraries are considered in detail. Children's literature from the historical point of view is reviewed; modern illustrators and modern authors are discussed. Students have the opportunity of using a large collection of selected children's books owned by the Library School. The lectures are supplemented by problems, story telling, practical work and visits.

II. ACQUISITION AND CARE OF LIBRARY MATERIALS

The purpose of these courses is to acquaint the future librarian with the principles underlying wise, economical and adequate provision of books, periodicals, pamphlets, and other non-book material, etc., for library use, and the best modern technique to be applied in recording them and in making them available to the public.

10. Accessions—Dr. G. R. Lomer, 8 Lectures.

After considering the principles of library policy underlying accessions, a flexible routine for the receipt and record of gifts is discussed, followed by practice in the use of trade bibliographies, publishers' lists, and second hand catalogues, English, American and foreign, as a basis for problems in ordering. The equipment and administration of this department, including the handling of invoices, fund records, and files, are also discussed. Practice is provided in the complete routine of ordering, in which the student makes out order cards, orders and invoices, and completes the recording and filing involved.

11. Classification and Cataloguing—Miss V. Murray, 92 Lectures.

The principles and purpose of classification and cataloguing are studied with a view to their application in libraries of different types and sizes. The Dewey Decimal classification is reviewed and A.L.A. catalog rules are examined in detail, with laboratory practice throughout the course in cataloguing and classification of books and in assigning subject headings. Methods and rules for filing catalogue cards, L.C. cards, shelf list, etc. are also considered.

Bibliographical form is studied and students are trained in the method of compiling simple reading lists, as well as formal bibliographies, indexes and union lists.

12. Advanced Classification—Miss V. Murray, 16 Lectures. (*Elective*).

The history and theory of classification are covered and a comparative study is made of the Dewey, Brussels, Cutter, Library of Congress, Brown and Bliss and other classification schemes in modern use.

13. Binding—Dr. G. R. Lomer, 8 Lectures.

The topics considered in this course include the following and are illustrated by samples, lantern slides, and visits to a bindery and the Library Museum. Hand binding; the processes of sewing, forwarding, and finishing; types of sewing. Machine binding, reinforced library binding, and spiral wire binding. Materials, patterns, routine and records for book binding. Binding for periodicals and serials, pamphlets and fugitive material. Common causes of damage to books. The care of and "first aid" repairs to books, with demonstration and practice.

III. SELECTION AND USE OF LIBRARY MATERIALS

While the students are being taught the processes involved in the care of books and are acquiring a professional background of knowledge and experience, the point of view and needs of the future reader are explained and provided for by a carefully planned study of the subject content of books and their adaptation to practical use in the libraries of various types.

During the first term Book Selection and Reference are studied separately and from a general point of view. In the second term they are combined and taught together in "special subject units" such as art, history and chemistry. All forms of material are reviewed including books, serial publications, government documents, pamphlet and other appropriate material.

14. Book Selection—Miss V. Ross, 40 Lectures.

This course deals with methods of selecting books for various types of libraries, communities and readers. Representative books of all classes are examined for their literary value, as well as their physical make-up, and various editions, translations and series are compared.

The student becomes familiar with the general and special printed aids to selection; the characteristics and specialties of publishing houses and book agents; the problems of authorship, copyright and censorship; and important literature of the library profession, including library journals and book reviewing periodicals.

Training is given in book evaluation and annotation, written and oral book reviewing, compiling selective book lists.

15. Reference and Bibliography—Miss V. Ross, 84 Lectures.

The purpose of the course is to give students a practical understanding of the administration of a reference department, its clientele and the

procedures involved in efficient reference and research work; and a critical knowledge of the basic types of reference materials such as encyclopedias, dictionaries, yearbooks, indexes, followed by the outstanding books in special subjects. Typical reference questions are given to students in order to develop their faculties in the use of these various books. Each student also makes an intensive study of the reference material in one selected subject.

16. GOVERNMENT PUBLICATIONS—Miss V. Ross, Miss H. Haultain, and Miss V. Murray, 16 Lectures.

The object of the course is to familiarize students with the character of British, Canadian and United States government documents in reference and research work, their source and distribution, and their care and use in libraries. Special attention is paid to the understanding and use of the various catalogues and indexes, and the organization of the different departments of government. Some attention is also paid to similar aspects of foreign documents and international publications.

17. PERIODICALS AND SERIALS—Miss V. Murray, 12 Lectures (*Elective*).

A brief sketch of the historical development of the periodical form is given; study is made of the various types of serials published to-day, such as popular magazines, technical journals, house organs, and the publications of societies and institutions.

A systematic survey is made of the problems involved in the selection and ordering of periodicals and serials in English and foreign languages; checking and claiming; circulation, binding and storage; exchange of duplicates and completing of sets.

18. BIBLIOGRAPHY—Miss V. Ross, 8 Lectures.

Universal, National, trade and personal bibliographies, also bibliographies of bibliographies, union lists and library catalogues available in printed form are studied from the point of view of use. Subject bibliographies are considered in the reference course with the proper subjects. Class discussions are conducted for comparison of forms of entry and arrangement of lists. The bibliographical work of libraries, societies, etc., is surveyed. Compilation of a selective annotated bibliography is required.

NON-BOOK MATERIALS—Dr. Lomer, Miss Ross, Miss Murray.

Problems arising in connection with the acquisition, care, and use of non-book materials in public and special libraries are considered in appropriate courses and cover the following:

1. Motion picture films, stills, photostats, lantern slides, and microfilm, including a brief explanation of the processes of photography in its application to the library.

2. Music recordings and sheet music.

3. Picture collections, architectural drawings, blueprints, maps, and material of a similar nature.

4. Pamphlets, clippings, and other fugitive material.

5. The principles of alphabetical, geographical, numerical, subject and classified filing are studied, and applied to the care of information files. office records, pamphlets, and pictures.

IV. LIBRARY PRACTICE

As all courses are planned for the development and future guidance of a trained library assistant in a modern library (public, special, college, school, or children's) it is believed that satisfactory results can be obtained only through familiarity with the use of library materials and with the daily work of the practising librarian. To obtain such necessary experience in close relation to daily instruction the following types of practical work are required:

1. Laboratory Work.

The problems and laboratory work involved in the technical courses provide the conditions necessary for the practical application of the principles and methods taught. A schedule of required professional reading is provided in most of the courses.

2. Visits to Local Libraries

In addition to the Redpath Library and the various special and departmental libraries at McGill University, the students have the opportunity of becoming familiar with Westmount Public Library, Mechanics Institute, Civic Library, Divinity Hall Library, Canadian Industries Library, Bell Telephone Company Library, Library of the Sun Life Assurance Company, Library of the Royal Bank of Canada, Montreal Art Association Library, Montreal Children's Library, Montreal High School Library, D'Arcy Magee High School Library, Montreal Catholic School Commission Library, Commercial High School Library. Visits are also made to a technical photographic laboratory, paper mill, printing house, publishing house and commercial bindery.

3. Library Visits to Other Cities.

A week's visit to other large cities (in 1946-47, New York, Brooklyn, and Newark) with a programme of conducted visits to libraries, is planned as a required part of the course. This aims to give the student an opportunity to observe the practical application of subjects taught.

4. Practice Work

Two weeks of continuous practical work under supervision is required after the examinations in May, in order that the student may acquire an appreciation of library work as a whole under everyday conditions. (72 hours.)

McGILL UNIVERSITY

MONTREAL

SCHOOL OF PHYSICAL EDUCATION

OPEN TO
MEN AND WOMEN

1947-1948

McGILL UNIVERSITY

SCHOOL OF PHYSICAL EDUCATION

ADMINISTRATIVE OFFICERS

Principal..... F. CYRIL JAMES, Ph.D., D.C., LL,D., Docteur de l'Université (Montréal)

Professor of Physical Education and Director of the School.....ARTHUR S. LAMB, B.P.E.,M.D.,C.M.

Comptroller and Executive Assistan to the Principal.....S. H. DOBELL, D.S.O.

Bursar.....WILLIAM BENTLEY, C.G.A.

Registrar.....T. H. MATTHEWS, M.A.

A complete list of the teaching staff of the University, including the School of Physical Education, is printed as a separate announcement which may be obtained from the Registrar's Office.

GENERAL NFORMATION

HISTORY AND AIMS

The McGill School of Physicl Education is an integral part of the Faculty of Medicine of McGill University. It was established as a short summer course in 1912, a three years' course in 1933, and, in the Session 1945-46, it was extended to a fouryears' course leading to the degree of Bachelor of Science in Physical Edıcation, B.Sc. (Phys. Ed.).

The aim of the school is to proıide Canada with well-qualified teachers of health and physical education wlo realize the contribution these subjects should make towards sane and happy living.

THE FIELD

There is an increasing demınd for trained teachers in physical education and the field is rapidly wdening to include such organizations as the following: Public and Privæte Schools; High Schools; Colleges; Y.M.C.A.'s; Y.W.C.A.'s; Church Clubs; Playgrounds; Recreation Centres; Welfare and Social Clubs; Settlenents; Industrial Organizations; Boy Scouts; Girl Guides; Summer Camps, etc. For several years, the School has not been able to meet the demınd for teachers.

Degree Course Offered

For the session 1947-48 both men and women students will be admitted to the School.

The course is of four years' duration following a satisfactory standing in Junior Matriculation, or three years following Senior Matriculation, or its equivalent. During the vacation periods, field work for a minimum of four months is required (*See below*). The course includes an analysis of the underlying principles of general education, educational psychology, the physical organism as a functioning unit, and a study of the possible contribution of physical education to the problems of modern civilization. Practice teaching under staff supervision is a part of the training.

The course leads to the degree of Bachelor of Science in Physical Education, B,Sc. (Phys. Ed.).

Entrance Qualifications

Acceptable Junior Matriculation standing or equivalent work done elsewhere is necessary for admission to the School. Senior Matriculation standing, the successful completion of the first year in the Faculty of Arts and Science, or equivalent work done elsewhere is necessary for admission to the second year of the School. Physics, Chemistry and Biology should be covered during the first year.

A natural aptitude for, and previous training in, physical activities, together with a sense of rhythm, are essential. A student should know how to swim, play basketball and tennis, skate and have had some instruction in gymnastics before entering. Women students should have had some instruction in different forms of dancing. It is recommended that a student should, if possible, have earned the bronze Medallion of the Royal Life Saving Society or its equivalent.

Students who desire to follow this course should consult the head of the School concerning detailed requirements in motor activities.

The programme of physical education places a rare opportunity in the hands of the instructor, and thus necessitates a forceful personality, guided by high ideals and aspirations, an understanding of people and an ability to organize and control group activities.

Facilities

The University Library and Museum are available for use by the students, as are the University Hockey Rinks, Tennis Courts, the Percival Molson Memorial Stadium and the Sir Arthur Currie Memorial Gymnasium-Armoury.

A special library of selected works and the leading magazines on physical education are available for use by the students.

Exceptional facilities are afforded for practice teaching and observation in the Public Schools under the Protestant Board of School Commissioners, and in various institutions throughout the City.

Residences

See accompanying pamphlet and application form.

Uniforms

The regulation costumes of the school must be worn, and students are not permitted to wear other than the regulation garments. A list of articles required, with approximate cost, is sent to students on application.

Student Organizations

All women students are members of the Women's Union of McGill University and all its affiliated societies.

All men students are members of the Students' Society of McGill University.

Professional Opportunities

From time to time students are required to attend lectures and functions relevant to their professional training.

Text Books

The University Library exists for supplemental reading only. In order to start their own professional libraries, students are given a limited number of books and mimeographed material. In addition, students are expected to purchase a certain number of books recommended by the School.

(Approximate cost $15.00)

Admission

Men and women students are admitted to the regular courses in the School. They will not be admitted if they are less than seventeen (17) or more than twenty-seven (27) years of age, except under special conditions. A personal interview is advisable, and applicants must have had some practical experience in physical work before registration.

A photograph (passport size) and two references, one from a former teacher, must be sent direct to the school. Neither reference should be from a relative.

Partial students may be admitted to special courses at the discretion of the Director.

Further information

Requests for further information should be addressed to the Secretary, School of Physical Education, McGill University, Montreal.

Regulations

1. All students enter the School on an indeterminate probation. Students who are considered unsuitable for the profession are advised to discontinue.

2. A student may at the discretion of the Director be requested to withdraw at any time for reasons of unsatisfactory work or conduct.

3. Students in professional courses are required to be present at all classes unless otherwise excused. For classes in the Faculty of Arts and Science, see regulations of that Faculty.

4. No student is permitted to participate in outside demonstrations, classes or teams, etc., without first having secured permission from the Director.

5. During the vacation periods which follow the second and third years, all students are required to do field work for a minimum of one month each year. The first three weeks of the second and third years are devoted to field work which is completed before the regular lectures in the Faculty of Arts and Science begin.

REGISTRATION AND FEES

Registration

Students who are entering the second or third years of the degree course will register at the Office of the School on Monday September 8th, and the opening lecture will be given on Tuesday, September 9th. Students entering the first or fourth years of the degree course register on Monday and Tuesday, September 29th and 30th. Students registering late are required to pay a late fee. Application forms should be returned not later than August 16th, 1947.

Fees

The regular fees and special fees are given in the General information pamphlet included in this Announcement.

Dates for Payment

Fees for students who are entering the second or third years of the degree course are due and payable at the Bursar's Office on Monday, September 8th, between the hours of 9 a.m. and 1 p.m. and 2.30 p.m. to 4 p.m., but they may be paid before that date. Fees for students who are entering the first and fourth years are payable Monday, September 29th or Tuesday, September 30th. The second instalment of tuition fees is due and payable on February 1st. An additional $2.00 is charged for payment after the specified dates.

Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the above paragraph.

Immediately after the prescribed dates for the payment of fees' the Bursar will send to the Director of the School a list of the registered students who have not paid their fees. The Director will thereupon suspend them from attendance at classes until such time as the fees are paid or a satisfactory arrangement is made with the Bursar.

AWARDS AND PRIZES

Awards

Degrees are granted to successful students at the end of the course.

The Degrees of the School are recognized by the Protestant Committee of the Department of Education, Province of Quebec, and the Protestant Board of School Commissioners of Montreal as qualifying students who are British subjects for the rank of Specialist in the Public Schools.

Candidates who wish to qualify for the High School Diploma of the Province of Quebec are urged to consult the Professor of Education.

Prizes

1. Gold Medal.—The School offers a gold medal to the student who attains the highest general proficiency throughout the course.

2. Lieutenant-Governor's Silver Medal.—This prize is awarded to the Junior Student who attains the highest general proficiency in the sessional examinations.

N.B.—The above conditions may be amended and prizes may be withheld at the discretion of the Director.

COURSES OF INSTRUCTION

The University reserves the right to amend or cancel any of the courses stated below. Further details of the following courses are available upon request.

YEAR I—MEN AND WOMEN

*ENGLISH 2. (Literature and Composition) (Full Course)

*PHYSICS 11. GENERAL COURSE (B. A. SECTION) (Full Course)

A general course covering the elementary portions of mechanics, sound, heat, magnetism, electricity, light and atomic physics. Simple applications of fundamental principles to well known phenomena are explained with the aid of demonstrations, laboratory work and numerical examples.

Texts: College Physics, Mendenhall, Eve, Keys and Sutton (Heath & Co.); An Elementary College Course in Experimental Physics (Renouf Publishing Co.)

*CHEMISTRY 60—The Chemistry of Daily Life (Full Course)

Major branches of chemistry discussed are Inorganic, Organic, Food and Industrial.

Text: Hatcher, An Introduction to Chemical Science (Wiley).

*ZOOLOGY 11a—Man and the Vertebrates (Half Course)

Text: Romer, Man and the Vertebrates.

*ZOOLOGY 11b—Evolution of the Animal Kingdom (Half Course)

Texts: Buchsbaum, Animals without Backbones; Romer, Man and the Vertebrates.

PHYSICAL EDUCATION 1. Basic Techniques in Neuromuscular Activity (Lect. 2, Lab. 4 hours a week) (Full Course)

The basic and professional requirements in Year I consist of introductory or orientation courses with the object of familiarizing the student with the field of physical education and recreation. A general standard of proficiency in motor skills is required in selected activities as a basis for the more advanced work of later years. Instruction in First Aid forms part of this course.

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*Faculty of Arts and Science.

For Men: Track and field, soccer, basketball, gymnastics, apparatus, wrestling and swimming.

For Women: Swimming, elementary fundamental gymnastics, elementary modern dance, basketball, skating, volleyball, badminton.

YEAR II—MEN AND WOMEN

*ENGLISH 13. Technique of the Drama (Full Course)

FUNCTIONAL ANATOMY (Full Course)

The emphasis in this course is upon the body as a living mechanism in which the function and structure are inseparably related and in which the activities of all parts are intimately co-ordinated.

Text: Anatomy and Physiology, Williams (Saunders.)

*PSYCHOLOGY 21 (Full Course)

An introduction to the study of psychology designed to help the student to understand the principles underlying human behaviour and to interpret behaviour scientifically, with particular application to problems in physical education.

*SOCIOLOGY 1 (Full Course)

Introduction to the study of society, evolution of social institutions, patterns of social and cultural change, social forces determining economic and political adjustments.

Texts: Dawson and Gettys, An Introduction to Sociology. (The Ronalds Press).

*CHEMISTRY 72a (Half Course)

A course in elementary organic chemistry especially designed for students in Physical Education.

PHYSICAL EDUCATION 2. (Lect. 3, Lab. 6 hours a week). Principles of Physical Education—Analysis and Practice of Activity (Full Course)

A survey of the aims of physical education and their relation to those of general education. Age and sex characteristics in play and recreation. Techniques and procedures for the elementary school. Students who are admitted to Year II with Senior Matriculation must give evidence of having achieved an equivalent standard of proficiency to those students who have completed the practical work required of students in the first year. If this is not the case, extra practical work will be required.

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*Faculty of Arts and Science.

All students of the second year are required to report three weeks before the regular lectures begin in order to attend the Outdoor School in athletics, sports and games.

During the session all students are required to attend a Ski School in the Laurentian Mountains for class instruction, practice in techniques, cross country touring, lectures and discussions.

Between second and third years, all students are required to devote a minimum of one month to appropriate field work.

For Men: Elementary school activities, gymnastics, apparatus, soccer, track and field, rugby, touch rugby, softball, swimming, boxing, hockey, skiing, fencing, backgrounds of the dance and basketball.

For Women: Elementary school activities, gymnastics, soccer, track and field, softball, swimming, skiing, field hockey, tennis, backgrounds of the dance and basketball.

YEAR III—MEN AND WOMEN

*PSYCHOLOGY 33. Growth and development (Full Course)

Survey of material pertaining to the psychology of infancy, childhood and adolescence, emphasizing the continuity and patterning of human development.

*EDUCATION 1. General Principles of Education (Full Course)

*EDUCATION G. (Half Course)

The use of the voice as a teaching instrument. Voice training, production and control. Diction and enunciation. Reading aloud (prose and poetry). Pitch and modulation.

*PHYSIOLOGY 21. Somatic and Visceral (Full Course)

*CHEMISTRY 72a (Half Course)
(1947-48 only)

A course in elementary organic chemistry especially designed for students in Physical Education.

**HYGIENE AND SANITATION (Half Course)

Fundamental principles of disease prevention, with special reference to sanitary environment and communicable diseases. Sources and modes of infection. Cause and effect.

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*Faculty of Arts and Science.
**Faculty of Medicine.

PHYSICAL EDUCATION 3. (Lect. 3, Lab. 9 hours a week) Methods and Analysis of Teaching (Full Course)

Evaluation and selection of material for the teaching of health, physical education and recreation in the secondary schools, camps, playgrounds and community centres. Techniques; methods; practice teaching.

All students of the third year are required to report three weeks before the regular lectures begin in order to attend the Outdoor School in athletics, sports, and games.

During the session all students are required to attend a Ski School in the Laurentian Mountains for class instruction, practice in techniques, cross country touring, lectures and discussions.

Between third and fourth years, all students are required to devote a minimum of one month to appropriate field work.

For Men: Tennis, track and field, soccer, rugby, skiing, gymnastics, apparatus, basketball, swimming, life saving, hockey, folk dancing, group games. Observation; methods and analysis of teaching, officiating, coaching and practice teaching.

For Women: Backgrounds of the dance, gymnastics, skiing, apparatus, advanced modern dance, clog and tap dancing, folk dancing. Observation; methods and analysis of teaching; practice teaching.

YEAR IV—MEN AND WOMEN

PHYSIOLOGY OF EXERCISE (Half Course)

The effects of various types of exercise are studied in relation to the working power of the human machine and consideration given to the underlying principles in the selection of the best methods of exercise to employ.

HISTORY OF PHYSICAL EDUCATION (Full Course)

Study of the history of Physical Education from primitive times until the present day, including Political History and the History of Education in so far as they have influenced Physical Education. Discussion of the growth and scope of modern societies that aim to promote public welfare through health and recreation.

Extensive reading is required.

ORGANIZATION AND ADMINISTRATION (Full Course)

Problems involving facilities, equipment, organization and administration of physical education programmes in schools, colleges, industries and institutions.

**PHYSICAL MEDICINE (Equivalent of 2 courses)

Development and Present Day Requirements in Mental Health, Preventive Medicine, Nutrition and Technical Application of Physical Medicine.

This course includes remedial and corrective gymnastics; personal, school and community health problems.

PHYSICAL EDUCATION 4. (Lect. 5, Lab. 6 hours a week) (Full Course)

Principles of physical education, programme construction. Curriculum content and planning.

Principles, methods, advanced techniques. Analysis and integration of school curricula in health, physical education and recreation. Practice teaching.

At the termination of the regular college session, all students are assigned to practice teaching duties in the public schools on a full time basis, for a period of three weeks.

For Men: Advanced gymnastics, water safety, exhibitions, pageants. Arts, crafts, hobbies, adult and community recreation. squash, badminton. Officiating, coaching and practice teaching.

For Women: Advanced apparatus, tumbling and stunts. Exhibitions, pageants. Arts, crafts, hobbies, adult and community recreation. Officiating, coaching and practice teaching.

**Faculty of Medicine, Department of Health and Social Medicine.

McGILL UNIVERSITY

MONTREAL

SCHOOL FOR GRADUATE NURSES

1947-1948

McGILL UNIVERSITY

SCHOOL FOR GRADUATE NURSES

ADMINISTRATIVE OFFICERS

Principal.....F. Cyril James, Ph.D., D.C.L., LL.D., Docteur de l'Université

Dean of the Faculty of Medicine.....Frederick Smith, M.A., M.B., B.Ch., M.R.C.S., L.R.C.P.

Director for the School for Graduate Nurses.....Marion Lindeburgh, O.B.E., R.N., M.A.

Comptroller and Executive Assistant to the Principal.....S. H. Dobell, D.S.O.

Bursar.....William Bentley, C.G.A.

Registrar.....T. H. Matthews, M.A.

ADVISORY COMMITTEE

Dean Smith (Chairman)

Prof. R. P. Vivian

Miss Esther M. Beith

Miss F. Munroe

Miss Lindeburgh

A complete list of the teaching staff of the University, including the School for Graduate Nurses, is printed as a separate announcement which may be obtained from the Registrar's Office.

GENERAL INFORMATION

The School for Graduate Nurses of McGill University was opened in 1920 following the last war and has consistently devoted its whole programme to the special preparation of graduate nurses. The facilities provided by the Faculty of Arts and Science, the Faculty of Medicine, the University teaching hospitals and health and social agencies in Montreal, offer excellent resources for the development of a well-rounded curriculum.

In planning for the future of nursing and health services in the Dominion it is obvious that an increasing number of nurses should be encouraged to take advantage of the courses provided for teachers, administrators, supervisors in general and special fields, and for public health nurses. It is also in line with current thinking that a reasonable number of promising nurses with above average qualifications should be carefully selected and given a broader education and experience to prepare them as the leaders of tomorrow.

This school offers courses to meet the needs of both these groups. One year courses are available which lead to certificates in Teaching and Supervision in Schools of Nursing, Supervision in Psychiatric Nursing, Supervision in Obstetrical Nursing, Administration in Schools of Nursing, Public Health Nursing, Administration and Supervision in Public Health Nursing.

A two year programme leading to the degree, Bachelor of Nursing, is also available for those who can meet the entrance requirements. This course provides opportunity for specialization in the fields of teaching and supervision, or administration in schools of nursing, in public health nursing and administration and supervision in public health nursing.

In addition to these full-time programmes, nurses who are in or near Montreal may register as partial students. Refresher courses are also held from time to time.

ENTRANCE REQUIREMENTS

All applicants must have completed the basic nursing course in an approved school of nursing, be registered in the province or country from which they come, be emotionally mature and in good physical health.

For admission to the certificate courses candidates must have passed in the required papers of the Junior Matriculation Examinations or their recognized equivalents. (see p. 2208 for details).

For admission to the degree courses, candidates must have passed in the required papers of the Senior Matriculation Examinations or their recognized equivalents. (see p. 2213 for details).

APPLICATION FOR ADMISSION

All applications must be made on forms which may be obtained from the School for Graduate Nurses, McGill University.

REGISTRATION

Certificate Courses

Students in Public Health Nursing, Supervision in Psychiatric Nursing, Supervision in Obstetrical Nursing will register on September 2nd.

Students in Teaching and Supervision will register on September 19th

Students in Administration in Schools of Nursing and in Administration and Supervision in Public Health Nursing will register on September 25th, September 26th and September 27th.

Degree Course

Students in the first year will register on September 25th, September 26th and September 27th.

Students in the second year will report for field work as advised.

EXAMINATIONS

The pass mark in all examinations, in keeping with University regulations, is fifty per cent.

Results of examinations are recorded according to class, as follows: Class I, 80% to 100%; Class II, 65% to 79%; Class III, 50% to 64%.

HEALTH SERVICES

To promote their physical welfare all students in the University are required to be medically examined at the beginning of the session. There are no exceptions to this rule. Provision is made for the care of the health of undergraduates *during the session* but not during vacations. (See "General Information" pamphlet for details.)

FEES

Students pay annually two fees: (1) inclusive University fee; (2) a Student's Activity fee. There are no other regular fees, and the only extras are for late registration, for graduation in absentia, etc.

University fee—*Degree Course*		$232.00
If by instalments:		
First instalment	$118.50	
Second instalment	118.50	
Certificate Courses		187.00
If by instalments:		
First instalment	96.00	
Second instalment	96.00	
Student's Activity fee		8.00

Fees are due and payable at the Bursar's Office between the hours of 9 a.m. and 1.pm. and 2.30 to 4.00 p.m. on Friday, September 26th or from 9 a.m. to 12 noon on Saturday, September 27th.

BOARD AND RESIDENCE

University residence facilities for women are very limited but students interested in securing this type of accommodation should consult the General Information pamphlet.

Every assistance is given to students in finding suitable accommodation. A list of approved lodgings is on file in the School. The cost of board and lodging in approved rooms varies from $50.00 to $75.00 per month. Separately, good board costs from $35.00, and a room from $30.00 upwards a month. Approval of the Director must be secured before making final arrangements for a room.

EXPENSES

Approximate Cost of the Course

University fees	$200.00 to $250.00
Books and incidentals	25.00 to 50.00
*Board and lodging	500.00 to 600.00
Average total	725.00 to 900.00

*Students registered in courses requiring longer field work period will take this extra time into consideration in estimating expenses. Additional expense for public health nursing students is approximately $100.00.

SCHOLARSHIPS

Applicants for scholarships must meet the entrance requirements of the University. Preference will be given to applicants with experience in the nursing field.

1. Alexandra Hospital

   The Board of Governors offers a scholarship in the form of full maintenance at the hospital during a year's study at the School for Graduate Nurses. Members of the hospital nursing staff are eligible.

2. Association of Nurses of the Province of Quebec

   A scholarship of $350.00 is offered to a member of the Association of Nurses of the Province of Quebec, whose qualifications are acceptable to McGill University. Any course offered by the School may be selected.

3. Children's Memorial Hospital School of Nursing

   The Board of Governors offers a scholarship in the form of maintenance at the hospital during one year's study at the School for Graduate Nurses.

4. Montreal General Hospital School for Nurses

1. The Mildred Hope Forbes Memorial Scholarship Fund provides three scholarships annually to graduates of the Montreal General Hospital School for Nurses for graduate work in nursing at a Canadian university.

2. The Alumnae Association of the Montreal General Hospital School for Nurses offers a scholarship. Only members of the Alumnae Association are eligible.

5. Royal Victoria Hospital School of Nursing

1. The Mabel F. Hersey Scholarship is given annually by the Board of Governors for a year of post-graduate study at the School for Graduate Nurses, McGill University.

2. An annual scholarship is awarded from the Dr. Garrow Fund for post-graduate study.

3. The Emma Thomas Scholarship is offered annually for post-graduate study.

4. The Ida McGregor Scholarship is offered annually for post-graduate study.

6. Shriners' Hospital for Crippled Children

A scholarship in the form of maintenance at the hospital during a year's study at the School for Graduate Nurses is offered by the board of Governors of the Montreal Unit to registered graduate nurses who have affiliated as student nurses at the Shriners' Hospital.

7. Victorian Order of Nurses for Canada

The Victorian Order of Nurses for Canada offers scholarships of $500.00 each to nurses taking a year's post-graduate course in Public Health Nursing. Candidates who have been on the staff of the Order for two months or more will be given preference.

8. The Homoeopathic Hospital of Montreal

The Alumnae Association of the Homoeopathic Hospital School for Nurses offers a scholarship of $200.00 for a year's study in Teaching and Supervision in Schools of Nursing at the School for Graduate Nurses. Only members of the Alumnae Association are eligible.

9. Montreal Maritime Women's Club Scholarship

A scholarship of $50 provided by the Maritime Women's Club of Montreal and open only to candidates from the Maritime Provinces. The award is made by the School for Graduate Nurses, which takes into account the candidates' scholarship, character, personality, and qualities of leadership.

W. K. KELLOGG FOUNDATION LOAN FUND

Through the generosity of the Foundation, this fund has been established to assist graduate nurses who cannot otherwise meet the expenses of a course of study at the school. For further particulars applicants should consult the Director of the School for Graduate Nurses.

ONE YEAR CERTIFICATE COURSES

Teaching and Supervision in Schools of Nursing
Public Health Nursing
Supervision in Psychiatric Nursing
Supervision in Obstetrical Nursing
Administration in Schools of Nursing
Administration and Supervision in Public Health Nursing

ENTRANCE REQUIREMENTS

1. Junior Matriculation

   Candidates must have passed in the required papers of the Junior Matriculation Examinations or their recognized equivalents. The number of subjects or papers to be taken in any such examination is the number normally required to obtain Junior Matriculation standing in the Faculty of Arts and Science (e.g., ten papers in Quebec; eleven in British Columbia), but a wider choice of subjects is permitted.

   The compulsory subjects are English, History, Algebra or Advanced Arithmetic, and Chemistry or Biology. Chemistry and Biology should *both* be taken if possible. The other subjects of the examination are entirely optional.

   The Faculty of Arts and Science will admit a graduate of the School to the First Year of any of its courses with this Matriculation if the student is specially recommended by the School for Graduate Nurses.

2. Nursing Preparation and Experience

   Applicants must present evidence of the satisfactory completion of the undergraduate course in an approved school of nursing. They must also present evidence of satisfactory experience in nursing following the completion of the undergraduate course.

3. Health

   A certificate of medical examination must be submitted as required by the University, and of successful vaccination within seven years or of insusceptibility to vaccine within five years, in accordance with provincial health regulations. In addition, students are required to report before November first for the health examination conducted by the University.

TEACHING AND SUPERVISION IN SCHOOLS OF NURSING

This course prepares qualified nurses for positions as instructors and supervisors in schools of nursing. A period of at least one year of satisfactory experience in nursing following completion of the undergraduate course is considered a prerequisite. Field work will be adjusted to meet individual needs.

REQUIRED COURSES

Sociology 1
Education 1, 1st term
Chemistry 60
Bacteriology 8
Mental Health
Public Health, 1st term
History of Nursing
Trends and Developments in Nursing
Teaching in Schools of Nursing
Observation, Practice Teaching and Field Experience
Nursing Supervision in Hospitals

PUBLIC HEALTH NURSING

This course prepares qualified nurses for staff positions in public health nursing organizations. A period of at least one year of satisfactory experience in nursing, following completion of the undergraduate course is considered a prerequisite.

Field work will be adjusted to meet individual needs.

REQUIRED COURSES

Sociology 1
Education 1, 1st term
Bacteriology 8
Mental Health
Public Health
Nutrition

Social Adjustments of the Family
Public Health Nursing
Teaching in Public Health Nursing

Field Work in Public Health Nursing

Experience under supervision is an integral part of the course in Public Health Nursing. The basic field work requirement is twelve weeks. The schedule for students without previous experience is as follows:

4 weeks preliminary field work in September.

6 weeks field work in May and June.

2 weeks or equivalent field work during the session.

This requirement is adjusted to meet individual needs and students will not be expected to repeat experience which has been gained under adequate supervision.

Uniforms

Special field work uniforms are obtained at the School. Students should bring white collars and cuffs with them. Any plain dark hat and coat may be worn.

SUPERVISION IN PSYCHIATRIC NURSING

This course covers a complete calendar year and is planned to prepare nurses with the required qualifications to assume supervisory responsibilities in psychiatric nursing service and in the development of the educational programme.

Applicants must have had at least two years of satisfactory experience in nursing following completion of the undergraduate course, of which one year has been spent in psychiatric nursing.

The course includes lectures and related clinical experience, conferences, demonstrations and special studies.

The month of September is devoted to observation and supervised practice; from October to May inclusive, lectures in the university are correlated with a planned clinical programme. The course is concluded by two months of concentrated field work.

REQUIRED COURSES

Psychology 21
Sociology 1

Mental Health
Public Health, 1st term
Trends and Developments in Nursing
Teaching in Schools of Nursing
Nursing Supervision in Hospitals
Psychiatry
Psychiatric Nursing

SUPERVISION IN OBSTETRICAL NURSING

This course covers a complete calendar year and is planned to prepare nurses with the required qualifications to assume supervisory responsibilities in obstetrical nursing service and in the development of the educational programme for undergraduate and graduate nurses.

Applicants must have had at least two years of satisfactory experience in nursing following completion of the undergraduate course, of which one year has been spent in obstetrical nursing.

The course includes lectures and related clinical experience, conferences demonstrations and special studies.

The month of September is devoted to observation and supervised practice; from October to May inclusive, lectures in the university are correlated with a planned clinical programme. The course is concluded by two months of concentrated field work.

REQUIRED COURSES

Sociology 1
Bacteriology 8
Mental Health
Public Health, 1st term
Trends and Developments in Nursing
Teaching in Schools of Nursing
Nursing Supervision in Hospitals
Obstetrics
Obstetrical Nursing

ADMINISTRATION IN SCHOOLS OF NURSING

This course prepares qualified nurses to direct Schools of Nursing and Nursing Service in hospitals. Applicants for the course must show evidence of a satisfactory record of two or more years in an executive position. The course "Teaching and Supervision in Schools of Nursing" or the equivalent, followed by satisfactory experience would provide the most desirable background for this advanced course. Field work will be adjusted to meet individual needs.

REQUIRED COURSES

Sociology 1 or Sociology 2
Economics 211G
Education 1
Scientific Management
Hospital Administration
Mental Health
Public Health, 1st term
Trends and Developments in Nursing
Administration in Schools of Nursing

ADMINISTRATION AND SUPERVISION IN PUBLIC HEALTH NURSING

This course prepares qualified nurses as supervisors and directors in public health nursing organizations.

The course "Public Health Nursing" or its equivalent, and at least two years of satisfactory experience in the field following the completion of a basic course in public health nursing are prerequisites.

REQUIRED COURSES

Sociology 1, Sociology 2 or Sociology 7
Economics 211G
Education 1
Scientific Management
Administration in Public Health
Trends and Developments in Nursing
Administration and Supervision in Public Health Nursing
Problems in Supervision in Public Health Nursing

COURSES REQUIRED FOR THE DEGREE OF BACHELOR OF NURSING

To keep pace with the increasing demands made upon professional nursing it is essential that a sufficient number of nurses who meet the academic, personal and professional requirements be encouraged to undertake a broader preparation for leadership than can be provided in a one year programme.

A carefully planned two year course is offered for this group. In the first year, students take a general course of selected subjects in the Faculty of Arts and Science, the Faculty of Medicine, and in the professional field. The second year programme includes nursing and allied subjects, closely correlated with observation and practice, and provides opportunity for specialization in the following fields:

Teaching and Supervision in Schools of Nursing
Public Health Nursing
Administration in Schools of Nursing
Administration and Supervision in Public Health Nursing

ENTRANCE REQUIREMENTS

1. Senior Matriculation

Candidates must have passed in the required papers of the Senior Matriculation Examinations or their recognized equivalents. The required subjects are English, Chemistry, and any three of the following: History, Biology, French, German, Spanish, Latin, Mathematics, Physics.

2. Nursing Preparation and Experience

(a) All applicants must present evidence of the completion of the undergraduate course in an approved school of nursing with a creditable record in theory and practice. All applicants must be registered in the province from which they come.

(b) At least one year of satisfactory experience for specialization in Teaching and Supervision in Schools of Nursing, or in Public Health Nursing. At least three years of experience in which executive ability has been demonstrated, for specialization in Administration in Schools of Nursing, or in Administration and Supervision in Public Health Nursing. A basic course in public health nursing is a prerequisite for the course in Administration and Supervision in Public Health Nursing.

3. Health

A certificate of medical examination must be submitted as required by the University, and of successful vaccination within seven years or of insusceptibility to vaccine within five years, in accordance with provincial health regulations. In addition, students are required to report before November first for the health examination conducted by the University.

BACHELOR OF NURSING

(Teaching and Supervision)

REQUIRED COURSES

First Year

Psychology 21
Physiology 21

Chemistry 72
Social Medicine
Nutrition
Trends and Developments in Nursing
Teaching in Schools of Nursing (A)

Second Year

Education 1
Sociology 1
Bacteriology 8 and 10
Social Medicine (Advanced)
Mental Health
Nursing Supervision in Hospitals
Problems in Teaching and Supervision
Teaching in Schools of Nursing (B)
History of Nursing

BACHELOR OF NURSING

(Public Health Nursing)

REQUIRED COURSES

First Year

Psychology 21
Physiology 21
Chemistry 72
Social Medicine
Public Health
Nutrition
Trends and Developments in Nursing
Public Health Nursing (A)
Teaching in Public Health Nursing

Second Year

Education 1
Sociology 1
Bacteriology 8 and 10
Mental Health
Social Adjustments of the Family
Social Medicine (Advanced)
Public Health Nursing (B)
Public Health Nursing—Field Experience

BACHELOR OF NURSING

(Administration in Schools of Nursing)

REQUIRED COURSES

First Year

Psychology 21
Social Medicine
Mental Health
Economics 211G
Scientific Management
Trends and Developments in Nursing
Nursing Supervision in Hospitals
Administration in Schools of Nursing (A)

Second Year

Education 1
Sociology 1
Nutrition
Social Medicine (Advanced)
Bacteriology 10
Hospital Administration
Administration in Schools of Nursing (B)
Problems in School of Nursing Administration

BACHELOR OF NURSING

(Administration and Supervision in Public Health Nursing)

REQUIRED COURSES

First Year

Psychology 21
Administration in Public Health
Mental Health
Economics 211G
Scientific Management
Trends and Developments in Nursing
Administration and Supervision in Public Health Nursing (A)

Second Year

Education 1
Sociology 1
Bacteriology 8 and 10
Social Medicine (Advanced)
Administration and Supervision in Public Health Nursing (B)
Problems in Supervision in Public Health Nursing

DESCRIPTION OF COURSES

COURSES IN THE FACULTY OF ARTS AND SCIENCE

Sociology 1 (Introductory Course)
Three hours..... Professor C. A. Dawson

Sociology 2 (The Community)
Three hours..... Professor C.A. Dawson

Sociology 7 (The Family)
Three hours..... Professor C. A. Dawson

Chemistry 60 (Chemistry of Daily Life)
Two hours..... Professor W. H. Hatcher

Economics 211G (Introductory Course)
Three hours..... Professor John Culliton

Education 1 (General Principles)
Three hours.....Professors John Hughes and A. B. Currie

Physiology 21 (Visceral Physiology)
Three hours with laboratory.....Dr. K. G. Terroux

Psychology 21 (Introductory Course)
Two hours and laboratory.....Professor R. B. MacLeod

COURSES IN THE SCHOOL FOR GRADUATE NURSES

BACTERIOLOGY

Fundamental principles of bacteriology, sources and modes of infection, immunity, methods of diagnosis and prevention, sufficient observation and practice of laboratory methods for the application of this knowledge to nursing. Emphasis is placed upon cause and effect rather than upon an elaborate study of the organisms themselves.

Four hours, first term; additional requirement for degree course, two hours, second term.....Faculty, Department of Bacteriology

SOCIAL MEDICINE (ADVANCED)

Fundamentals of medical science in general and special fields, including recent knowledge as to cause, treatment and prevention of disease; promotion of individual and public health.

Two hours, second term.....Dr. R. P. Vivian and special lecturers

NUTRITION

Newer knowledge of nutrition with emphasis on normal feeding of individuals and families; planning of meals at various income levels; the budgeting of food money.

Two hours.....Dr. D. L. Thompson and Marion A. Wall

CHEMISTRY 72

The application of the principles of inorganic and organic chemistry to the general problems connected with living cells and their functions.

Three hours and laboratory, one term.....Dr. R. V. V. Nicholls

HOSPITAL ADMINISTRATION

Principles of organization and administration applied to the hospital; committees, finance, purchasing, maintenance, housekeeping, personnel, medical and nursing services, administration of departments, health service; the school of nursing in the hospital.

Two hours, one term..... Dr. B. S. Johnston and other lecturers

SCIENTIFIC MANAGEMENT

Principles of organization and administration; administrative control, policies and procedures, finance, public relations; personnel qualifications, selection, training and placement, salaries, promotions, working conditions, welfare programmes, relationships, personnel records.

Two hours, one term.....Dr. E. F. Beach

SOCIAL MEDICINE AND PUBLIC HEALTH

Brief survey of the development and present status of public health in Canada and other countries; policy and function of national, provincial, and local health departments; role of the voluntary agency; legislation affecting health; vital statistics; epidemiology; planning community health programmes, rural and urban; adequate maternal, infant, pre-school, school and industrial health services; evaluation of health services.

Two hours.....Dr. R. P. Vivian and Dr. C. W. Macmillan

ADMINISTRATION IN PUBLIC HEALTH

General principles underlying health organization and administration; trends and policies; role of official and voluntary agencies; health legislation; vital statistics; present day epidemiological practice; programme planning; evaluation of public health services, health surveys.

Two hours, one term.....Dr. R. P. Vivian and Dr. C. W. Macmillan

TRENDS AND DEVELOPMENTS IN NURSING

Nursing today; brief review of the growth of professional nursing; surveys and reports; the professional school of nursing; emphasis on health and social factors; present trends, including organization, economic factors, legislation; nursing as a community service.

Two hours..... Marion Lindeburgh and other lecturers

TEACHING IN SCHOOLS OF NURSING (Certificate Course)

Psychological principles underlying learning and teaching; teaching aims and methods, selection and organization of subject matter, evaluation of results; principles of curriculum construction; essentials for sound organization and administration of the educational programme; application of modern methods of teaching; tests and measurements.

Three hours.....Marion Lindeburgh

Observation, Practice Teaching and Field Experience

First term—Observation in affiliated schools of nursing; reports of observation, conferences.

Second term—Observation and practice in teaching in affiliated schools of nursing; weekly conferences.

Field Experience—During the month of September provision is made for preliminary observation in local hospitals. After examinations in May a short period of special field experience is arranged to meet individual needs.

TEACHING IN SCHOOLS OF NURSING (Degree Course)

(A) Principles of learning and teaching, school of nursing curricula, aim and content, organization and classification of subjects, integration of theory and practice; methods of teaching, planning of instruction, methods of evaluation, administration of the educational programme.
Two hours and conference.....Marion Lindeburgh

(B) Observation and Practice Teaching
Observation and practice in affiliated schools of nursing during each year followed by two months of concentrated experience.

NURSING SUPERVISION IN HOSPITALS

Principles of supervision applied to nursing service and nursing education; nursing personnel, qualifications, responsibilities, relationships; ward teaching programme; clinical teaching; methods of evaluation; records.

Two hours, one term..... Marion Lindeburgh

For Students in degree course

Two months of observation and practice, one month in each year.

PROBLEMS IN TEACHING AND SUPERVISION IN HOSPITALS

Special study of the more important problems of nursing service and nursing education in the clinical field; maintaining good standards of nursing care, evaluation and revision of procedures, staffing, staff education, the ward teaching programme, evaluation of students and their work.

Two hours..... Marion Lindeburgh and special lecturers

ADMINISTRATION IN SCHOOLS OF NURSING (Certificate Course)

Organization and administration of the school of nursing; control by hospital or university; school of nursing committee; school budget; staff, students, educational facilities, working and living conditions, health service, records, educational programme.

Two hours.....Marion Lindeburgh and Eugenie Stuart

Field Experience

Observation and practice in addition to planned visits and conferences during the term.

ADMINISTRATION IN SCHOOLS OF NURSING (Degree Course)

A. First Year

Evolution of schools of nursing; factors affecting present day administration; hospital and school relationships; the dual role of the superintendent of nurses; essentials of a good school; essentials of hospital nursing service; standards.

Two hours.....Marion Lindeburgh and Eugenie Stuart

B. Second Year

Principles of organization and administration; personnel administration; staff education; student selection, health service, guidance, evaluation; administration of curriculum; school budget; records; accrediting; control by universities of undergraduate and graduate courses.

Two hours.....Marion Lindeburgh and Eugenie Stuart

Field Experience Three Months

One month of observation between first and second years and two months of administrative experience under supervision at the end of the second year.

PROBLEMS IN SCHOOL OF NURSING ADMINISTRATION

Demands of the nursing service and of nursing education; personnel selection, relationships and morale, status and responsibilities, staff education and management; student selection, rotation, assignments, evaluation and guidance, living and working conditions, health service; staff and student records.

Two hours..... Marion Lindeburgh and special lecturers

PUBLIC HEALTH NURSING (Certificate Course)

Scope of public health nursing today; trends, objectives, principles, functions and methods, with emphasis on family health; records and statistics; application of principles and methods to development of urban and rural nursing services; maternal, infant, pre-school, school, industrial and morbidity programmes; planning and evaluating public health nursing services.

Three hours..... Electa MacLennan and Ann Peverley

Field Experience

a. Field trips to health and social agencies in the community.
b. One day each week in the field during second term. (2 weeks).
c. Ten weeks of supervised practice in public health nursing. This requirement is reduced for those who have had previous experience under adequate supervision.

PUBLIC HEALTH NURSING (Degree Course)

A. First Year

Scope of public health nursing today; development and trends; objectives, principles, functions and methods, with emphasis on family health service; records and statistics, community nursing needs.

Three hours..... Electa MacLennan and Ann Peverley

B. Second Year

Application of principles and methods in development of adequate programmes for maternal, infant, pre-school, school, industrial, communicable disease, and morbidity services; planning and evaluating public health nursing services in rural and urban areas; organization of public health nursing programmes in Canada.

Three hours. . . Electa MacLennan, Ann Peverley and special lecturers

Field Experience Four Months

Between the first and second years students spend two months in observation and practice with an approved public health nursing organization.

A further period of two months' field work is required at the end of the second year. Throughout the course field visits are made to health and social agencies in the community.

TEACHING IN PUBLIC HEALTH NURSING (Certificate Course)

(A) Psychological principles underlying learning and teaching; teaching aims and methods; selection and organization of subject matter; evaluation of results; application of these principles and methods to health teaching in the community; the family as the unit of instruction; teaching aids; evaluation of programme.

Three hours.....Marion Lindeburgh, Electa MacLennan and Ann Peverley

(B) Observation, practice teaching and conferences during the second term and in field experience period.

TEACHING IN PUBLIC HEALTH NURSING (Degree Course)

(A) Principles of learning and teaching; opportunities and responsibilities of the public health nurse for health teaching; determining health education needs; the family as the unit of instruction; criteria for selection of teaching aids; use of newspaper, radio, and films; evaluation of programme.

Two hours and conference..... Electa MacLennan

(B) Observation and practice; assignments and conferences during the term and during field work.

MENTAL HEALTH

A study of the nature of human behaviour, the basic principles of mental health and the intellectual, emotional, physical and social factors involved in personality maladjustments and mental disorders.
Two hours, one term..... Dr. Baruch Silverman

SOCIAL ADJUSTMENTS OF THE FAMILY

A study of the social needs of the family; community organization to meet social needs; principles and practices of social work and their implications for public health nursing; use of community resources in promoting social adjustments of individual families and the community as a whole; lectures supplemented by family studies.

Two hours, one term.....Dorothy King and special lecturers

HISTORY OF NURSING

An historical review: as a means of securing an appreciation of nursing traditions and ideals; as a means of understanding and interpreting trends and developments in modern nursing; consideration of source materials, and effective methods of teaching.

One hour, second term.....Ann Peverley

ADMINISTRATION AND SUPERVISION IN PUBLIC HEALTH NURSING

(Certificate Course)

Application of principles of organization and administration to field of public health nursing; trends and policies in official and voluntary organizations; organization, finance, budget; personnel selection and management; supervision; staff and student education; relationships; administration of rural and urban programmes.
Three hours..... Electa MacLennan and special lecturers

Field Experience One Month

Observation of methods and content of supervision followed by conference and discussion during the session; one month practice in administration and supervision in the field.

ADMINISTRATION AND SUPERVISION IN PUBLIC HEALTH NURSING

(Degree Course)

A. First Year

Trends and developments in official and voluntary health services; implications for public health nursing; principles of organization and administration and application to public health nursing; programme planning; principles and methods of supervision.

Three hours..... Electa MacLennan and special lecturers

B. Second Year

Administration in public health nursing; organization and control; board and committees; finance, budget, purchasing; office management; personnel policies, selection, training and management; supervisory programmes; staff education; student programmes; evaluation; interpretation; volunteers; relationships.

Three hours..... Electa MacLennan and special lecturers

Field Experience Three Months

One month of observation between first and second years, and two months of administrative experience under supervision at end of second year.

PROBLEMS IN SUPERVISION IN PUBLIC HEALTH NURSING

Study of the more important problems of service and education in the public health nursing field; maintenance of standards; balancing the programme; supervision in office and field; records; evaluation; supervisory reports; relationships.

Two hours..... Electa MacLennan and special lecturers

PSYCHIATRY

Under this heading will be given instruction in psychoneuroses and behavioural problems generally; the relationship of deviations in human behaviour to social situations, the importance of hereditary factors, motivations, incentives and the part played by emotional factors in the production of personality difficulties.

Two hours, one term..... Dr. Ewen Cameron

PSYCHIATRIC NURSING

(A) This course is designed to assist graduate nurses who have had a sound basic preparation in psychiatric nursing to become more proficient in observation and interpretation of symptoms; to consider essential nursing care, and to evaluate specific procedures in psychiatric nursing from the point of view of administration and teaching.

One hour and conference..... Catherine Lynch and Kathleen Marshall

(B) Observation and Practice — Three months

OBSTETRICS

This course is designed to provide a wider knowledge and deeper understanding of the normal function of the human reproductive system; essentials of medical supervision throughout the maternity cycle, disorders and their early recognition and treatment; the role of the nurse in maternal care. It will include participation in staff rounds, demonstrations, clinics, discussion of significant topics relating to obstetrics.

Two hours.....Dr. N W. Philpott

OBSTETRICAL NURSING

(A) This course is designed to assist graduate nurses, who have had a sound basic preparation in obstetrical nursing, to consider essential nursing care and to evaluate specific procedures in obstetrical nursing from the point of view of administration and teaching.

One hour and conference.....Caroline V. Barrett and Gertrude L. Yeats

(B) Observation and Practice — Three Months

MCGILL UNIVERSITY SCHOOL OF PHYSIOTHERAPY 1947-1948

McGILL UNIVERSITY

MONTREAL

SCHOOL OF PHYSIOTHERAPY

1947-1948

McGILL UNIVERSITY

MONTREAL

SCHOOL OF

PHYSIOTHERAPY

1947-1948

McGILL UNIVERSITY

FACULTY OF MEDICINE

SCHOOL OF PHYSIOTHERAPY

ADMINISTRATIVE OFFICERS

Principal . . . . . F. Cyril James, Ph.D., D.C.L., LL.D.
Dean . . . . . Frederick Smith, M.A., M.B., B.Ch. (Cantab.), M.R.C.S. (England), L.R.C.P. (London)
Director . . . . . Guy H. Fisk, B.A., M.D., C.M., D.T.M. & H. (Eng.).
Lecturer and Assistant Director . . Miss Helen M. Nicholson, T.M.G., T.M.E. (Eng.)
Comptroller and Executive Assistant to the Principal . . . . . S. H. Dobell, D.S.O.
Bursar . . . . . William Bentley, C.G.A.
Registrar . . . . . T. H. Matthews, M.A.

GENERAL INFORMATION

The aim of the course in Physiotherapy is to provide a supply of adequately trained graduates who will be qualified to work as Physiotherapy aides in hospitals, institutions and private homes.

Physiotherapy is the use of heat, light, water, electricity and mechanical agents, including massage and remedial gymnastics, in the treatment of injury and disease. Physiotherapy aides are trained in the use of these healing agents under the direction of a physician, such treatments being prescribed by the physician and carried out according to prescription.

There is a steadily growing demand for qualified Physiotherapy aides in both civilian life and the armed services. In the armed forces Physiotherapy sisters are given the same rank and commission as a nurse. In civilian life they work in hospitals, industries, clinics, and in private homes under the direction of doctors. It is a profession for women.

The curriculum consists of three academic years at the University. Throughout the course ample provision has been made for practical hospital instruction in addition to the University training. This hospital training is carried out at the Children's Memorial Hospital, the Montreal General Hospital and the Royal Victoria Hospital in the wards and Departments of Physical Medicine.

Upon completion of the entire course satisfactorily, a Diploma of Physiotherapy is granted by the University.

Graduates of this University are accepted for registration by the Canadian Physiotherapy Association. The Canadian Physiotherapy Association is a federal association which through its membership maintains a registry of certified Physiotherapists throughout Canada. All the hospitals in Canada and the United States recognize membership in this Association as evidence of good professional standing in Physiotherapy.

ADMISSION

Women students only are admitted to the course.

Academic Requirements

Senior Matriculation or one year of college work is required for entrance. Candidates for admission must submit certificates to show that they have Senior Matriculation standing in the University's School Certificate Examination or some other examination recognized by the University as equivalent. It is recommended that intending candidates take physics and some other science.

Candidates wishing to know whether they have the academic qualifications for admission to the course should send complete details of their school and college work to:

Dr. Guy H. Fisk,
Director, McGill School of Physiotherapy,
1266 Pine Avenue West,
Montreal 2.

Physical Requirements

Candidates, in order to qualify for admission, must satisfactorily pass a complete physical examination.

Registration

Registration will take place on Monday, September 29th and on Tuesday, September 30th. The place will be announced on the University notice boards.

Fees

The fees are $252.00 per annum. In addition students pay $10.00 for the support of the student organizations. Fees are due and payable at the Accounting Office during the hours of 9 a.m. to 1 p.m., or 2:30 to 4:00 p.m., on Registration Day. If desired, fees may be remitted by mail on or before the due dates. They may be paid in two instalments, in which case there is a charge of $5.00. The second instalment is due on or before February 1st.

Students registering late pay their fees at the time of registration, failing which they become subject to the provisions of the following paragraph.

Immediately after the prescribed dates for the payment of fees the Chief Accountant will send to the Dean of each Faculty a list of the registered students who have not paid their fees. The Deans will thereupon suspend them from attendance at classes until such time as the fees are paid or satisfactory arrangement is made with the Chief Accountant.

Supplemental examination fees are $10.00 for each paper.

Penalty for late payment of fees.....$2.00

PRIZES

The Lieutenant Governor's Silver Medal is awarded to the student with the highest standing throughout the course.

The Canadian Physiotherapy Association presents a Book Prize annually to the student with the highest standing in the Second Year.

The Dr. F. G. Finley Book Prize is presented annually to the student with the highest standing in the First Year.

COURSES OF INSTRUCTION

FIRST YEAR

ANATOMY 1.P.—The Anatomy of the limbs, skeleton and muscles of the trunk. — Professor C. P. Martin, Asst. Prof. S. Friedman, Dr. E. Walter Workman

A course designed to familiarize the student with the basic framework of the body.

Lectures and Labs.....150 hours

PHYSICS 11 or 12. — Mr. A. Morrison

A general course covering the elementary portions of mechanics, heat, magnetism, electricity, light, sound, and atomic physics.

Lectures and Labs.....150 hours

CHEMISTRY 11. — Dr. W. H. Hatcher

General survey of chemical theory and of inorganic chemistry including atomic and kinetic theories, equivalent, atomic and molecular weights, gases, liquids, solids, solutions, ionization, oxidation and reduction, velocities of reactions, chemical equilibrium, heats of reaction, electromotive series, periodic table, preparation and properties of important elements and compounds.

Lectures and Labs.....150 hours

FUNDAMENTAL AND RHYTHMIC GYMNASTICS. Miss Wagner

Fundamental Gymnastics; Stressing basic body conditioning; developing strength; flexibility and co-ordination.

Rhythmical Gymnastics: Also a development of general bodily skill as in fundamental gymnastics, but stressing more the response to music and exercises on the move.

Lectures.....60 hours

MEDICAL GYMNASTICS, 1.—Theory and practice of exercises as utilized in the treatment of disease. Miss M. Mason

An elementary course on the theory and practice of medical gymnastics as used in the treatment of various diseases and injuries. Stress will be laid on the differentiation of exercises suitable to various types of illness.

Lectures.....90 hours

CLINICAL THERAPEUTICS, 1. Dr. Fisk

A brief consideration of the disease processes commonly seen in patients treated by physiotherapists.

Lectures.....60 hours

ELECTROTHERAPY, 1. Miss H. Nicholson

A discussion of the currents used in medical diagnosis and treatment.

Lectures and Practical Work.....60 hours

MASSAGE 1,—Theory and practice. Miss H. Nicholson

The physiological effects of massage on the various systems of the body and its technique of administration with suitable practice on the human body.

Lectures.....150 hours

HOSPITAL AND HOME NURSING. Miss Mathewson

A course designed to provide a practical insight into the general principles governing the management of common injuries, the most effective first aid procedures and nursing technique adapted particularly for use in the home, the simpler hospital procedures in nursing and the proper isolation and aseptic techniques as practiced in the wards of the hospitals.

Lectures and Practice.....15 hours

SECOND YEAR

PHYSIOLOGY 1. Professor Hoff

The special physiology of posture and muscular motion and exercises, the nervous and circulatory systems—a consideration of the physiological bases for procedures in Physiotherapy.

Lectures and Labs . . . . . 120 hours

ANATOMY, 2.P.—Special Anatomy. Professor Martin
Asst. Prof. Friedman

Lectures and demonstrations designed to provide a more intimate knowledge of the anatomical structure and functions of the bones and joints, the muscular, cardiovascular, nervous and respiratory systems.

Lectures and Labs . . . . . 120 hours

CLINICAL THERAPEUTICS, 2. Dr. Fisk

A detailed consideration of the diseases and injuries that require physiotherapeutic treatment. The application of treatment to specific symptoms will be dealt with in detail.

Lectures . . . . . 30 hours

MEDICAL GYMNASTICS, 2. Miss M. Mason

An advanced course on the theory and practice of medical gymnastics in the treatment of the diseased and injured individuals.

Lectures . . . . . 90 hours

PRINCIPLES OF GYMNASTICS. Miss Munro
Miss Wagner

A study of terminology of various types of gymnastics without music, of exercises suitable for various ages and types of classes, organization of lessons and courses, practice in presenting exercises.

Lectures . . . . . 30 hours

MASSAGE, 2.—Theory and Practice. Miss H. Nicholson

An advanced course dealing with the effects of massage on diseased tissue, its psychological effects and its general application to the sick person.

Lectures . . . . . 150 hours

ELECTROTHERAPY, 2. Miss H. Nicholson

A course on the physiological effect of the various electrical currents used in the treatment of sick people with the technique of their application and a consideration of the dangers and contra-indications.

Lectures . . . . . 60 hours

PSYCHIATRY. Dr. L. G. Hisey

An introductory course in Psychiatry providing a basis for the understanding of the normal and abnormal workings of the human mind. Particular attention is given to the workings of the mind of the sick individual.

Lectures.....30 hours

PHYSICS 26,—The Physics of Physiotherapy. Dr. A. I. McPherson

A short course dealing particularly with the physics underlying the theory and use of Physiotherapeutic apparatus.

Lectures.....30 hours

HOSPITAL PRACTICE. 4 mornings a week

This will consist of actual practice on patients in the clinics and wards under direct supervision. The work will be carried out in the Children's Memorial, Montreal General, Royal Victoria and Verdun Protestant Hospitals. These hospitals provide a wide variety of cases, embracing every type that the practising physiotherapist will be likely to encounter. As Montreal is a centre drawing patients from many outlying districts there will also be opportunities of seeing many rare conditions during the hospital practice.

Besides learning the practical side of the work at the hospital, the student will be instructed in hospital routine and the correct approach to the patient. At the end of her hospital experience the student will be sufficiently experienced to deal with any situation she may be called upon to face in her practical work.

THIRD YEAR

This year will be essentially a hospital year with the students spending 810 hours in hospital practice. There will be four formal lecture classes each week and discussion of cases under treatment will be considered.

MEDICAL GYMNASTICS, 3. Miss M. Mason

An advanced course in the practical treatment of sick patients.

Lectures.....30 hours

MASSAGE, 3. Miss H. Nicholson

Detailed instruction in massage of the more difficult cases.

Lectures.....30 hours

ELECTROTHERAPY, 3. Miss H. Nicholson

Practical applications of the newer techniques in electrical treatment.

Lectures . . . . . 30 hours

CLINICAL THERAPEUTICS, 3. Dr. Fisk

Review of the more important conditions treated with physiotherapy.

Lectures . . . . . 30 hours

HOSPITAL PRACTICE.

Hospital practice will be carried out in medical gymnastics, electrotherapy, massage and therapeutics on five days a week. There will be clinical bedside teaching provided daily.

McGILL UNIVERSITY

MONTREAL, CANADA

Faculty of Arts and Science

French Summer School

Director

Professor J. E. Lanay

27th June — 8th August

1947

McGILL UNIVERSITY

MONTREAL, CANADA

Faculty of Arts and Science

French Summer School

Director:

PROFESSOR J. L. LAUNAY

27th June - 8th August

1947

THE ARTS BUILDING

2502

OFFICERS OF ADMINISTRATION

Principal of the University.....F. Cyril James, B.Com., M.A., Ph.D., D.C.L., LL.D.

Dean of the Faculty of Arts and Science.Hon. Cyrus Macmillan, M.A., Ph.D.

Director of the School.....J. L. Launay, Agrégé de l'Université de France

Assistant Director.....Mme. Touren-Furness, Licenciée ès Lettres (Paris)

Bursar of the University.....William Bentley, C.G.A., A.C.I.S.

Registrar of the University.....T. H. Matthews, M.A.

Secretary of the School.....Miss Joyce Collins, B.A.

Secretary.....Mme. P. Lengrand, Licenciée en Droit (Grenoble)

OFFICERS OF INSTRUCTION

Jean L. Launay, Agrégé de l'Université de France; Professor of French and Chairman of the Department of Romance Languages, McGill University; Director of the School.

Mme. L. Touren-Furness, Licenciée-ès-Lettres (Paris); Associate Professor of French, McGill University; Assistant Director of the School.

Julien Durand, Docteur en Droit, Ancien Député du Doubs, Ancien Ministre du Commerce et des P.T.T., Avocat au Barreau de Paris, Professeur d'Economie Politique à l'Ecole Supérieure de Commerce de Paris; Visiting Professor for 1947.

Mlle. Geneviève Andrieu, Licenciée-ès-Lettres, Diplômée d'Etudes Supérieures (Paris), Titulaire du Certificat d'Aptitude à l'Enseignement dans les Lycées; Instructor in French, Smith College, Northampton, Mass.

Mlle. Madeleine Bodier, Licenciée-ès-Lettres, Diplômée d'Etudes Supérieures (Paris); Lecturer in French, McGill University.

Serge Chambrillon, Ancien Elève de l'Ecole Normale Supérieure (Paris), Agrégé de l'Université de France, Ancien Elève de Louis Jouvet; Visiting Research Scholar at Columbia University.

René Fauconnier, Agrégé de l'Université de France; Instructor in French, Queen's University.

Mme. Nadia Labarre, Diplômée d'Etudes Secondaires, Ancienne Elève de l'Ecole Normale de Musique (Paris), Premier Prix du Conservatoire de Genève.

Mlle. Elizabeth la Mothe, Diplômée d'Etudes Supérieures de Lettres (Université de Montréal); Teacher of French, Trafalgar School, Montreal.

OFFICERS OF INSTRUCTION (*cont'd*)

MLLE. MADELEINE LANUSSE, Licenciée-ès-Lettres (Alger); Professeur au Lycée Français de New-York.

PAUL LENGRAND, Licencié-ès-Lettres (Grenoble), Diplômé d'Etudes Supérieures (Paris); Assistant Professor of French, McGill University.

MLLE. NORAH M. LENOIR, Diplômée de l'Ecole Vinet (Lausanne) et de l'Ecole d'Etudes Sociales (Genève); Lecturer in French, McGill University.

MLLE. MARIE-CLAIRE PECQUET, Licenciée-ès-Lettres, Diplômée d'Etudes Supérieures (Paris); Instructor in French, Wheaton College, Norton, Mass.

MLLE. FRANCINE SMACHTENS, Brevet Supérieur; Professeur au Collège Marie de France, Montréal.

MLLE. EUNICE SMITH-GOARD, Licenciée-ès-Lettres (Paris), A.B., A.M. (Brown); Teacher of French, Netherwood School, Rothesay, N.B.

THE FRENCH SUMMER SCHOOL
OF McGILL UNIVERSITY

The McGill French Summer School is an old established School. It is an integral part of the Faculty of Arts and Science of McGill University, and its courses of study are of college and university standard.

The University and its Cultural Environment

McGill University was established by Royal Charter in 1821 and carries on in Canada British traditions of education. It is situated in Montreal, the largest city of the historic Province of Quebec, where the language and much of the culture of old France persist. Montreal is a modern cosmopolitan city, too, the centre of an active and growing contemporary culture that expresses itself in a distinctive literature and art.

The French Summer School of the University, the main summer course of studies offered by the University, enjoys great advantages in consequence of its situation in Montreal and French Canada. Nowhere save in the Province of Quebec can we find on the North American continent a community that uses French as its native tongue, finds its inspiration in French literature and drama, and obtains its daily news from French newspapers and French radio announcers. The environment naturally has French atmosphere.

The Aims of the School

The School is designed for all who desire to take courses of lectures on French thought, literature or civilization, and at the same time to gain a practical working knowledge of the language. University or college undergraduates may take lectures and language courses which are equivalent to regular college courses. University graduates and teachers of French desirous of perfecting their knowledge of the language and literature have an opportunity to take advanced courses of graduate standard. Those who desire to study for a Master's degree at McGill University itself without being able to attend the regular winter session of the University are offered a programme which can be spread over four summers and which, when supplemented by the regular thesis in French, leads to the McGill M.A. degree. Besides those with such professional interest there are many who love the language and literature of France for its own sake and wish to continue studying the subject in favourable surroundings. The School accommodates these persons in its courses in so far as they are qualified for the particular courses they wish to take.

Opening Date and Registration

The School will open on Friday, June 27, and close on Friday, August 8, but students in residence at the French House will be permitted to spend the night of June 26-27 at the House, provided they give warning to the Secretary and do not report before 5 p.m. on June 26. No meals will be served before breakfast on June 27. The following plan has been adopted for registration:

(*a*) Students not in residence will register on the morning of June 27, from 9 a.m. to 12.30 p.m. in the Arts Building.

(*b*) Students in residence will register on the same day and in the same place, between 2.30 p.m. and 5.00 p.m.

Special arrangements will be made for teachers who are unable to leave their duties in time to reach Montreal for registration on the first day, provided they give due notice of the delay in their arrival.

Fees

Tuition fee for full-time students $105
(The above fee is reduced to $80 in the case of McGill undergraduates.)
Residence (room and board) $95
Fee for a three-hour course taken as a partial course $25
Deposit fee required on application and afterwards deducted from total fee $15

As this announcement goes to press, the U.S. dollar is officially on a par with the Canadian dollar but bank charges for exchange are ½%.

Fees for M.A. Students (See page 2516)

Correspondence

All correspondence concerning the French Summer School should be addressed to the Secretary, French Summer School, Arts Building, McGill University, Montreal 2, Canada.

Application Forms and Deposit

Application for admission should be made on a form which may be obtained from the Secretary.

Applications, accompanied by a deposit fee of $15.00 in Canadian funds, should be received before June 15. The deposit fee will subsequently be deducted from the candidate's fee. It may be withdrawn on or before that date. In case of cancellation after June 15, it will be held until the following session, after which it will be forfeited.

Students intending to stay in the French House should apply as early as possible. Late applicants may find that there is room for them only in a smaller residence some distance away.

VETERANS

The School has been approved as one of the recognized Institutions where U.S.A. and Canadian Veterans may continue their studies. The school tuition fees will therefore be paid by the Department of Veterans' Affairs provided that:

(*a*) U.S. students obtain a Certificate of Eligibility from their Local Veterans' Administration Agency.

(*b*) Canadian students obtain a Certificate of Eligibility from their local D.V.A. representative.

The certificate of eligibility should be delivered to the School Secretary at the time of registration.

Veterans will be required to pay the $15.00 deposit fee, which will be deducted from the residence charge which will NOT be paid for by D.V.A.

STATUS OF STUDENTS IN THE SCHOOL

(1) Regular, or full-time, students: those taking at least five courses.

(2) Partials: those registering for fewer than five courses.

M.A. students are considered as full-time throughout the four sessions leading to the degree, since they pay the full tuition fee.

A partial student may not hold a scholarship.

Rooms are reserved only for full-time students. Partials may be accommodated in the French House only after the registration of regular students has been completed and if space permits.

THE THREE COURSES OF STUDY

The individual courses consist of three class sessions per week in the form of lectures and of small groups for language practice. They are arranged in three grades which are designated respectively as Sections A (Elementary), B (Intermediate), C (Advanced).

A student who has passed five courses in Section C is considered to have completed the equivalent of a full honours or graduate course in the regular college session.

Courses in Section C are counted, in certain circumstances, toward the M.A. degree in French at McGill University. (See page 2514).

For M.A. students special research colloquia may be arranged.

ADMISSION REQUIREMENTS

General: For the courses of each section of study (Elementary, Intermediate and Advanced) there are certain requirements of admission which are described below in terms of college standing, but the School accepts any equivalent preparation through travel or residence in France or through private study. No beginners are admitted, as a working, if limited, knowledge of the language is required for admission to Section A. On the day of registration each student is interviewed by members of the Advisory Board who recommend the section for which he is best suited.

Section A (Elementary):

Candidates are normally required to have had two years of high school French or the equivalent.

Section B (Intermediate):

Candidates are normally required to have second or third year college standing. They must have a fair knowledge of French and some degree of facility in the spoken language.

Section C (Advanced):

Candidates are normally required to have fourth year college standing. They must have the ability to speak French fluently and a general knowledge of French literature.

Scholarships and Prizes

A limited number of Resident Scholarships are offered to those qualified to enter Sections B and C. Two Scholarships of $50 each have been offered by the French Government. Scholarship holders are required to register as full-time students and stay in the French House. The final date for application is May 8, 1947.

A number of prizes, consisting in books and medals, will be awarded to those students achieving best results in any of the three sections.

Final Examinations

A final examination is held in each course and may be taken by partials as well as by full-time students. A student who fails to take the examination receives no mark, as no substitute examination can be arranged under any circumstances whatsoever.

The Certificate

The curriculum leading to a certificate in any of the three Sections is a definite programme of study, always including practical work in the language. It aims to build up an organized knowledge of the major aspects of the subject. At the same time it is sufficiently flexible to be adapted to the previous training, the aptitudes, and the interests of the individual student. For this purpose members of the staff advise each student at registration. This guidance is also available to those who do not wish to try for the certificate.

Candidates for the Certificate must take the required number of courses in the Section to which they have been assigned and pass the corresponding examinations.

Academic Credits

Credits may be transferred from the French Summer School to other institutions, usually on the basis of one semester hour for each course taken. Applications for a transfer of credits should be addressed to the Registrar of the University.

The French House

Douglas Hall, the attractive residence on the slope of Mount Royal above the main buildings of the University, will be used as the French House. The building is modern and fire-proof and, because of its elevation, will be pleasantly cool on warm summer days. Moreover, it adjoins a large public park which provides opportunities for walks, rides, and drives.

Each student will have a single study-bedroom. The majority of these study-bedrooms are arranged in suites of three, each suite having its own sitting-room. A small number of double rooms may be available. They will be allotted last, unless specially requested. Each of the two occupants of a double room is allowed a small reduction in the residence fee. All rooms are completely furnished and linen is provided.

The men and women students associate at meals and in the Common Rooms. Members of the teaching staff live in the residence with the students and are constantly in friendly and helpful relationship with them. The informal education which is obtained through such daily association in common work and School activities is one of the most valued features of the School.

The use of French is *de rigueur* at all times among the members of the School in and out of class. On registering, students will undertake to adhere to this rule throughout the summer session.

Reduced Railway Fares

Arrangements have been made whereby students may obtain reduced fares from all points in Canada. Students wishing to avail themselves of this reduction should buy a single ticket and obtain at the same time a "standard certificate". This certificate must then be signed by the Director of the School. On presenting this at the railway ticket office students may obtain a return coupon at the reduced fare.

Baggage

The following is an extract from a memorandum (Series D, No. 12, Supplement No. 1, 15th January, 1936) of the Department of National Revenue, Customs Division:

"Radios, phonographs, musical instruments and other effects for personal and sporting use, not ordinarily entitled to entry free of duty as travellers' baggage, may be admitted without payment of duty and without deposit provided they are reported to the Customs Office and provided that these articles are imported for the use of the students themselves and will be exported under Customs supervision immediately after the closing of the School."

Immigration Requirements

Students who are not residents of Canada should bring with them for presentation to Canadian Immigration officers the letter informing them that they have been admitted to the School for the 1947 session.

U.S. citizens should carry some documents of identification, such as old passports, birth or baptismal certificates, tax bills and similar papers in order to facilitate their return to their country.

Students who are citizens of the United States by naturalization should carry their naturalization certificates, and those who have not acquired such status should present evidence that they are legally in the United States and that they will be allowed to re-enter that country after their temporary stay in Canada.

BANKING ARRANGEMENTS

It is recommended to out-of-town students that they bring letters of credit or use traveller's cheques, rather than draw ordinary cheques on their home bank.

COURSES OF INSTRUCTION

SECTION A

Six courses must be taken for the certificate.

LANGUAGE

1. CONVERSATION

Mon., Wed., Fri., at 10. — Mme. Labarre, Mlles. La Mothe, Lanusse and Smachtens

2. WRITTEN COMPOSITION

Translation into French mainly for the purpose of grammar review.
Tues., Thurs., Sat., at 9. — Mlles. Andrieu, Pecquet and Smith-Goard

3. ORAL COMPOSITION

Each student with the help of a vocabularly supplied by the instructor prepares and gives talks on selected topics. Each talk is criticized by the instructor and serves as a basis for general discussion.

Tues., Thurs., Sat., at 11. — Mlles. La Mothe and Lenoir, and M. Lengrand

4. TRAINING IN ORAL COMPREHENSION

This course is designed to enable the student to understand spoken French through practice in recognizing words and phrases with which he is already acquainted in their written form.

Carefully graded exercises including:

—dictation with words enunciated in groups according to their meaning.

—the reproduction, oral or written, of short talks given by the instructor on various subjects.

Grammar and vocabulary will be reviewed in so far as related to the purpose of the course.

Mon., Wed., Fri., at 11. — Mlles. Bodier and Smachtens

5. Lecture Expliquée

Intensive study of selected passages of literary value.
Mon., Wed., Fri., at 12. Mlles. LaMothe, Lenoir and Smith-Goard

6. Everyday Words and Phrases

A systematic study of vocabulary selected for its practical value.
Tues., Thurs., Sat., at 10. Mlle. Andrieu

7. Introduction to French Life

Text: J. Carter and B. McCarry, *France d'aujour-d'hui et d'hier*. (American Book Co.).

Mon., Wed., Fri., at 9. Mme. Labarre, Mlles. Lanusse and Smith-Goard

SECTION B

Six courses must be taken for the certificate, including Course 11 or Course 13.

LANGUAGE

11. Composition and Translation

The purpose of this course is to review grammar whenever the opportunity arises and to develop accuracy in the use of vocabulary.

Mon., Wed., Fri., at 11. Mlle. Andrieu
Tues., Thurs., Sat., at 9. Mlle. Lenoir

12. Oral Composition

Students prepare brief talks on topics of everyday interest. A few classes will be devoted to short debates.

Tues., Thurs., Sat., at 10. Mlle. Smachtens, MM. Fauconnier and Lengrand

13. Free Composition

The aim of this course is to develop fluency in writing French by practising the forms of writing which students are most likely to need: letters, summaries, reports, essays, etc.

Tues., Thurs., Sat., at 11. Mlles. Pecquet, Smachtens and Smith-Goard

14. Phonetics

A study of French sounds and of the international alphabet. Practical exercises.

Tues., Thurs., Sat., at 12.
Mon., Wed., Fri., at 10. } Mlle. Bodier

15. Diction

This course aims at a better appreciation of the aesthetic quality of the French language used orally in prose as well as in poetry. Special exercises to correct accent and intonation.

Mon., Wed., Fri., at 11. M. Chambrillon and
Tues., Thurs., Sat., at 9. Mme. Labarre

16. Modern French Prose

The purpose of this course is to improve the student's ability to read quickly, yet accurately, modern French prose of a high literary quality.

Texts: A. de Saint-Exupéry, "Vol de Nuit" (Harper, New York), Vercors, "Le silence de la mer" (Editions de l'Arbre-Montréal).

Mlle. Pecquet and M. Lengrand

LITERATURE AND CULTURE

17. French Comedy in the Eighteenth Century

Regnard, Lesage, Marivaux, Beaumarchais.

Mon., Wed., Fri., at 10. Mme. Furness

18. French Literature from 1750 to the French Revolution

A general survey of the literary and social trends in that period.

Mon., Wed., Fri., at 9. Mlle. Lenoir

19. The Short Story in the Nineteenth Century

A representative selection will be used as a text.

Tues., Thurs., Sat., at 12. Mlle. Lanusse

20. Modern France

Text: Y. Gauclère, *La France et sa culture* (Macmillan).

Mon., Wed., Fri., at 12. Mlle. Lanusse

21. Great French Poets of the Romantic Period

A representative selection will be used as a text.

Mon., Wed., Fri., at 12. M. Fauconnier

SECTION C

Five courses must be taken for the Certificate. M.A. candidates see page 2514.

LANGUAGE

30. Advanced French Stylistics

This course will deal with some of the problems, lexicological and grammatical, that confront the advanced student of French in his attempt to master the finer points of the language.

Mon., Wed., Fri., at 10. M. Launay

31. Advanced Composition

An intensive course in translation from English into French. The passages used are taken from modern American and British authors. Written work is assigned for each class and individually corrected.

Tues., Thurs., Sat., at 11. MM. Fauconnier and Launay, and Mlle. Andrieu

32. PHONETICS

For students who have passed Phonetics B or its equivalent. Review of the formation of French sounds and the laws governing their occurrence. Dynamics of speech (vocalic harmony, assimilation, laws of accentuation and intonation).

Experimental demonstration and checking of the student's speech by Rousselot's method.

3 hours a week of classroom instruction, 3 hours of demonstration.

Mon., Wed., Fri., at 12. Mlle. Bodier

33. THE CHARACTERS OF MOLIÈRE: A MODERN INTERPRETATION OF THEIR SIGNIFICANCE

This course has been designed to improve the student's knowledge of French classical comedy, and to emphasize the importance of elocution, acting and stagecraft in conveying to an audience the finer shades of meaning in Molière's best-known scenes.

(With permission of the Director the course may be taken, as an extra course, by students in Section B.)

Mon., Wed., Fri., at 2.30. M. Chambrillon

LITERATURE AND CULTURE

40. FRENCH POETRY OF THE SIXTEENTH CENTURY

The evolution of French poetry from Clément Marot to Agrippa d'Aubigné, with special emphasis on the Pléiade.

Mon., Wed., Fri., at 11. M. Fauconnier

41. FRENCH PHILOSOPHERS OF THE XVIII CENTURY

A study of the impact of philosophical thought on literature and the French way of life before the Revolution.

Tues., Thurs., Sat., at 12. Mlle. Pecquet

42. THE ROMANTIC DRAMA

As illustrated by Hugo, Dumas, Vigny, Musset.

Tues., Thurs., Sat., at 10. Mme. Furness

43. THE FRENCH STAGE BETWEEN 1880 AND 1914

A detailed study of the complex influences at work on the French stage in our time.

Mon., Wed., Fri., at 9. Mme. Furness

44. THE CONTEMPORARY FRENCH NOVEL

Special attention will be paid to Proust, J. Romains, Duhamel, Martin du Gard, Mauriac, Giraudoux, Malraux.

Tues., Thurs., Sat., at 9. M. Lengrand

45. FRANCE SINCE THE LIBERATION: THE STRUGGLE BACK TO GREATNESS AND PROSPERITY

A detailed survey of present conditions in France, and of the various measures adopted since June, 1944, to bring back greatness to the country and happiness to the people—by an eye-witness of the dark years of the German Occupation whose position in French public life enables him to know the facts and test the feelings of the average Frenchman of 1947.

Mon., Wed., Fri., at 11. M. Julien Durand

46. THE ACHIEVEMENTS OF THE THIRD REPUBLIC

A study of the permanent results achieved by the Third Republic in the political, social and economic fields, as well as an appreciation of its role in the progress of education and cultural life.

Tues., Thurs., Sat., at 12. M. Julien Durand

47. FRENCH MUSIC OF THREE CENTURIES

A survey of the development of orchestral and chamber music in France from Couperin to Ravel. This course does not require any previous knowledge of musical theory. It will stress the relationship between music and the other artistic activities of France. A wide selection of records will be used, and special listening groups will be arranged as required.

(With permission of the Director this course may be open to students in Section B.)

Tues., Thurs., Sat., at 10. Mme. Labarre

REGULATIONS FOR THE MASTER OF ARTS DEGREE

1. All work carried on towards an M.A. degree in the French Summer School is under the control and supervision of the Department of French in the Faculty of Graduate Studies of the University.

2. REQUIREMENTS FOR THE MASTER'S DEGREE:

   (*a*) The student must hold the degree of B.A. from McGill University, or from another institution of recognized standing, with at least second class honours in French, or the equivalent of second class honours in French as granted by McGill University—which must include the ability to speak French fluently and a sound knowledge of French literature.

   (*b*) A student, qualified as in 2(*a*), must complete four sessions in the Advanced Section of the French Summer School with at least second class standing in the final examinations of each session.

   (*c*) The student must prepare and present a thesis, written in French, which must be in some measure a contribution to knowledge. Its preparation is carried out under the direction of the French Department.

3. Students applying for admission to the Advanced Section of the Summer School, with the intention of proceeding towards the M.A. degree, should, as soon as possible, have a transcript of their academic record sent for appraisal to the Director of the School.

   Students whose record is considered the equivalent of the B.A. degree with at least second class honours in French as granted by McGill University will be notified of their eligibility for future admission to the Faculty of Graduate Studies of the University. At the end of their second session they will be allowed to register in that Faculty as candidates for the M.A. degree, provided they have completed the course requirements for the first two sessions.

   Students who hold a B.A. degree but whose record is not considered the equivalent of the McGill B.A. with at least second class honours in French may be allowed to make up the deficiency by taking more courses during their third and fourth summer sessions. They will also register in the Graduate Faculty at the end of the second summer session, provided that they have obtained at least a high second class standing in the courses of the first two summer sessions.

4. In the case of students of honours standing, the first summer session consists of five courses, the second of four courses, the third of three courses, and the fourth of two courses, each course consisting of three lectures per week. The decreasing number of courses through the four sessions enables the student to devote more time to the preparation of his thesis, which must begin in the third session at the latest. Each student works under the guidance of a director of research who is a member of the Summer School Staff. The only listed course which may be taken for credit in more than one session is No. 31, Advanced Composition (see below).

   Students may be required to take certain courses which are changed from year to year, and in any case:

   No. 30—Advanced French Stylistics. Students are advised to take this course during their second or third session.

   No. 31—Advanced Composition. A minimum mark of 65% must be obtained in the final examination of this course, irrespective of the final average for the set of courses taken during the session. The course must be repeated until this requirement has been met. As its material is varied each year, it can be taken a second summer for credit. If taken more than twice, it must then be carried as an extra course.

5. With the approval of the Graduate Faculty, one of the summer sessions, except the first, may be replaced by equivalent work in France or at another French Summer School.

Fees for M.A. Students

M.A. candidates pay the full sessional fee of $200 (tuition, room and board) or $105 (tuition alone) for each summer session during which they take courses.

M.A. candidates who have completed the courses required for the degree but have not completed the thesis, and are attending colloquia, will be charged at the rate for a single regular course.

Additional Fee for the Degree

The University fee for the M.A. degree is $147. A credit of $34.25 towards this is allowed for each session a student spends in Course C of the French Summer School. Thus a student who has spent four summers at the School and has otherwise qualified for an M.A. is required to pay an additional fee of $10.00 to the University for this degree.

For such a student there is no *in absentia* fee and no other University fee of any kind.

ARRANGEMENTS FOR STUDY AND RECREATION

Regular lecture classes are held in the Arts Building, in the centre of the University campus; the Redpath Library, near by, is open to all students for reading and study.

The mornings are devoted to lectures and independent work, and the early hours of three afternoons a week to conversation groups. The remaining afternoons are free for private study or for recreation, special excursions being arranged to points of interest in and near Montreal. During the evenings, there will be concerts, sing-songs, visits to French "movies", performances of French plays by students of the School, and two or three dances. Those who can obtain copies of *Chansons de France*, by Marcel Vigneras (Heath) should bring these with them. Open-air *Concerts Symphoniques* are given frequently in the evening on Mount Royal.

For those with a taste for athletics, tennis courts are available; golf may be arranged through the Secretary. The Laurentian Mountains, one of Canada's noted summer play-grounds, are within easy reach by car or train for students who would like to spend short week-ends there.

Those who wish to attend religious services with a French congregation will find both Protestant and Roman Catholic churches in Montreal.

APPENDIX

Countries represented in the enrolment
in 1945 and 1946

1945

CANADA

Alberta
British Columbia
Manitoba
New Brunswick
Nova Scotia
Ontario
Quebec

Bermuda

U.S.A.

California
Connecticut
District of Columbia
Georgia
Idaho
Illinois
Iowa
Kansas
Louisiana
Maine
Maryland
Massachusetts
Michigan
Minnesota
Missouri
Nebraska
New Jersey
New York
North Carolina
Ohio
Oregon
Pennsylvania
Rhode Island
South Carolina
Texas
Virginia
Washington
Wisconsin

1946

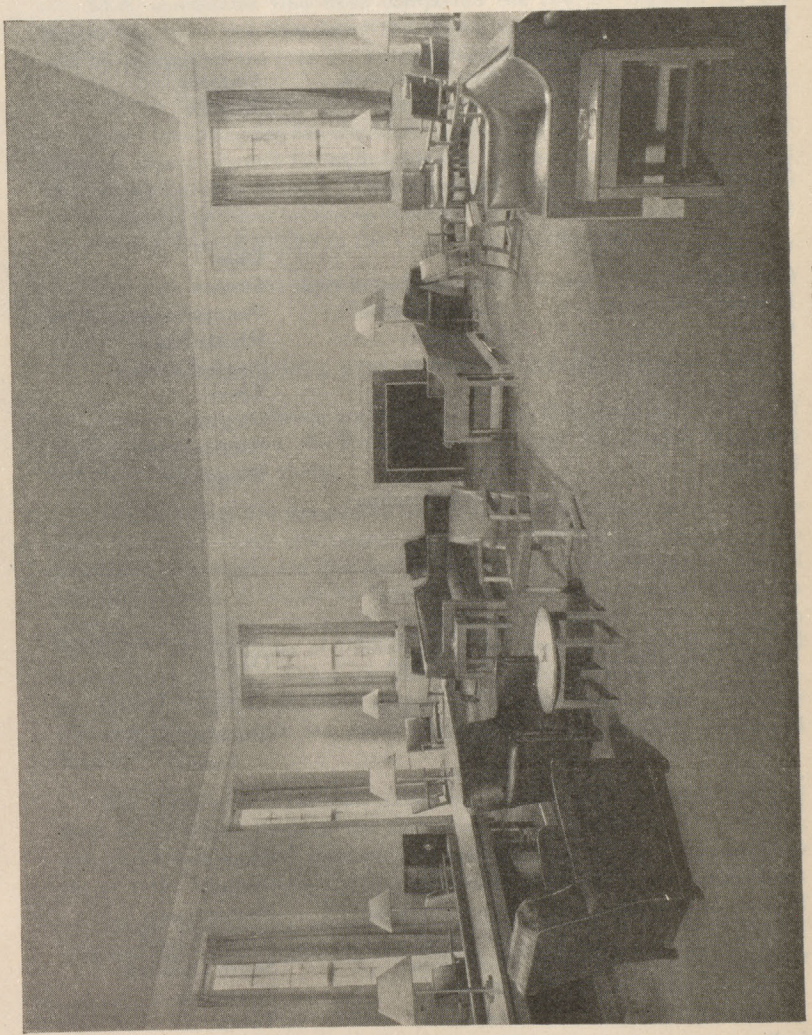
CANADA

Alberta
British Columbia
Manitoba
New Brunswick
Nova Scotia
Ontario
Prince Edward Island
Quebec
Saskatchewan

Bermuda
Jamaica
Haiti
Mexico
Trinidad (B.W. Indies)

U.S.A.

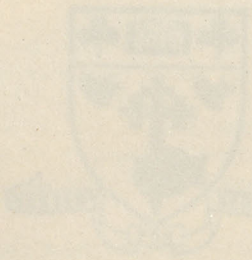
California
Connecticut
District of Columbia
Florida
Georgia
Idaho
Illinois
Indiana
Iowa
Kansas
Louisiana
Maine
Maryland
Massachusetts
Michigan
Minnesota
Missouri
Nebraska
New Jersey
New Hampshire
New York
North Carolina
Ohio
Oregon
Pennsylvania
Rhode Island
South Carolina
Tennessee
Texas
Virginia
Washington
Wisconsin
Wyoming



DOUGLAS HALL—THE COMMON ROOM

MACDONALD COLLEGE

McGILL UNIVERSITY



ANNOUNCEMENT

OF THE

FACULTY OF AGRICULTURE

SCHOOL OF HOUSEHOLD SCIENCE

AND

THE SCHOOL FOR TEACHERS

FOR THE SESSION 1911-12

MACDONALD COLLEGE, QUE.

MACDONALD COLLEGE
McGILL UNIVERSITY

ANNOUNCEMENT

OF THE

FACULTY OF AGRICULTURE

SCHOOL OF HOUSEHOLD SCIENCE

AND

THE SCHOOL FOR TEACHERS

FOR THE SESSION 1947-48

MACDONALD COLLEGE, QUE.

GENERAL INFORMATION

POST OFFICE ADDRESS:—There is a post office in the main building, and all mail should be addressed simply: Macdonald College, Que.

RAILWAYS:—Ste. Anne de Bellevue, Que., is on the main lines of the Canadian National Railways and of the Canadian Pacific Railways, 20 miles west of Montreal. The local stations are but a short walk from the College. Baggage checks should be surrendered at the Administration Office, Room 11, Main Building, where arrangements will be made for the transfer of baggage upon entering and leaving College.

FREIGHT AND EXPRESS:—The address for express or freight parcels is:—Ste. Anne de Bellevue (Jacques Cartier Co.), Que.

TELEGRAMS:—Telegrams should be addressed:—Macdonald College, Ste. Anne de Bellevue, Que.

TELEPHONES:—Administrative:—Ste. Anne de Bellevue, No. 335.

Men's Residence:—Ste. Anne de Bellevue, No. 806, 810.

Main Building Dormitory:—Ste. Anne de Bellevue, Nos. 782, 812.

Harrison House:—Ste. Anne de Bellevue, No. 407.

Women's Residence:—Ste. Anne de Bellevue, No. 788, 795.

HIGHWAY:—The Quebec provincial highway No. 2 passes through Ste. Anne de Bellevue.

BANK AT STE. ANNE DE BELLEVUE:—The Bank of Montreal.

CHURCHES:—The following denominations are represented at Ste. Anne de Bellevue:—

Church of England in Canada,
Roman Catholic Church in Canada,
United Church of Canada.

Students of all religious denominations are free to enter Macdonald College. The regulations of the Council of Education of the Province of Quebec apply only to students in the School for Teachers.

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McGILL UNIVERSITY

VISITOR

His Excellency, Field Marshal the Right Honourable
The Viscount Alexander of Tunis, G.C.B.,
Governor General of Canada

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PRINCIPAL

F. Cyril James, Ph.D., D.C.L., LL.D., Docteur de l'Université

MACDONALD COLLEGE

Macdonald College, which was founded and endowed by the late Sir William C. Macdonald, is incorporated with McGill University, and is situated twenty miles west of Montreal, at Ste. Anne de Bellevue, Que. It is composed of the Faculty of Agriculture, which includes the School of Household Science, and of the School for Teachers for the Protestant schools of the Province of Quebec.

FACULTY OF AGRICULTURE

The work of the agricultural departments of the College falls into three main divisions: teaching, research, and extension. Teaching and research form the major part of their work. Extension service is undertaken by departments as the need or opportunity may arise.

Macdonald College is officially recognized as the finishing institution for students who have taken their preliminary training at the Nova Scotia College of Agriculture, Truro, Nova Scotia.

The terms of the affiliation provide:—

That the entrance requirements for degree work at Truro shall correspond to those required by the Faculty of Agriculture, McGill University; and

That the Nova Scotia College of Agriculture, in consultation with Macdonald College, shall so co-ordinate her courses that it shall be possible for students from Truro to enter the advanced classes at Macdonald College with the same degree of training and academic equipment as those who have had preliminary training at the latter institution.

THE SCHOOL OF HOUSEHOLD SCIENCE

The School of Household Science is an integral part of the Faculty of Agriculture. The main function of the School is teaching, in relation to the home and for professional service in institutions.

SCHOOL FOR TEACHERS

The School for Teachers is a School of McGill University, controlled by a committee established under an agreement with the Government of the Province of Quebec. The School trains elementary, intermediate, and kindergarten teachers for the Protestant schools of the Province of Quebec.

THE INSTITUTE OF PARASITOLOGY

This Institute, located at Macdonald College, is governed by a joint committee of the National Research Council and McGill University, and has, as its main functions, the prosecution of research on animal parasites and the instruction of graduate students.

HANDICRAFTS DIVISION

Courses in a variety of handicrafts, open to men and women (veterans or non-veterans) who have junior matriculation standing or its equivalent, are available at Macdonald College. Instruction is given in weaving, leatherwork, linoleum block printing, woodwork, plastics, art metalwork, pottery, and small crafts such as making costume jewellery using shells and model light clay, felt working and braiding.

Two courses are offered: a six months' course, the cost of which is $250, and an eleven months' course, the cost of which is $450. These figures include tuition and materials. There is no residence accommodation at Macdonald College for Handicrafts students; room and board must be found in the town of Ste. Anne de Bellevue.

Detailed information about any or all of these courses may be obtained by writing to The Director, Handicrafts Division, Macdonald College, P.Q.

ASSOCIATED COLLEGES

By special agreement, certain institutions have arranged to provide their students with a course of study substantially equivalent to the first two years in Agriculture and Household Science at Macdonald College. Students who have satisfactorily completed such a course of study and are specifically recommended by the authorities of their college are permitted to enter the third year at Macdonald College.

The following are the Institutions with which the foregoing arrangement exists:—

Nova Scotia College of Agriculture, Truro, N.S.
(Agriculture only);

Prince of Wales College, Charlottetown, P.E.I.
(Agriculture and Household Science);

Memorial College, St. John's, Newfoundland.
(Agriculture and Household Science).

MACDONALD COLLEGE

(McGILL UNIVERSITY)

PRINCIPAL

F. CYRIL JAMES, Ph.D., D.C.L., LL.D.

VICE-PRINCIPAL

W. H. BRITTAIN, M.S. in Agr. (Cornell), Ph.D. (Cornell), F.R.S.C.

FACULTY OF AGRICULTURE

Dean:—W. H. BRITTAIN, M.S. in Agr. (Cornell), Ph.D. (Cornell), F.R.S.C., Professor of Entomology and Chairman of the Department.

GORDON C. ASHTON, M.Sc., Lecturer in Animal Nutrition.

HENRY R. C. AVISON, M.A., Assistant Professor of English.

BRUCE E. BAKER, Ph.D. (Laval), Sessional Lecturer in Chemistry.

GORDON L. BURTON, M.A. (Alta.), Ph.D. (Iowa), Professor of Agricultural Economics.

ERIC O. CALLEN, Ph.D. (Edinburgh), Assistant Professor of Plant Pathology.

THOMAS W. M. CAMERON, T.D., M.A. (Edin.), B.Sc. (Vet. Sci.) (Edin.), D.Sc. (Edin.), Ph.D. (Lond.), M.R.C.V.S., F.R.S.C., Professor of Parasitology, Director of the Institute of Parasitology, and Chairman of the Department of Parasitology.

D. G. CHAPMAN, B.S.A. (Toronto), M.Sc., Demonstrator in Chemistry.

R. A. CHAPMAN, PH.D., Assistant Professor of Chemistry.

L. CHOQUETTE, D.V.M. (Montreal), M.Sc., Lecturer and Research Assistant in Parasitology.

R. H. COMMON, B.Sc., M.Agr. (Belfast), D.Sc. (London,) Professor of Chemistry and Chairman of the Department.

R. CONNELL, D.V.M. (Toronto), Lecturer in Animal Pathology.

J. H. COOPER, B.Sc. (Agr.), Assistant Professor of Agricultural Engineering.

JOHN G. COULSON, M.A. (Queen's), Associate Professor of Plant Pathology and Chairman of the Department.

J. RITCHIE COWAN, B.S.A. (Toronto), M.S. (Minn.), Assistant Professor of Agronomy.

EARLE W. CRAMPTON, M.S. (Iowa), Ph.D. (Cornell), F.R.S.C., Professor of Nutrition and Chairman of the Department.

COLIN CRANHAM, B.P.H.E. (Toronto), Instructor in Chemistry and Athletic Director.

C. A. DAWSON, B.A., Ph.D. (Chicago), Professor of Sociology and Chairman of the Department (Faculty of Arts and Science).

WALTER A. DELONG, B.S.A. (Toronto), M.Sc. (McGill), Ph.D. (Minnesota), Associate Professor of Chemistry.

E. MELVILLE DUPORTE, Ph.D., Associate Professor of Entomology.

W. B. DURRELL, D.V.M. (Toronto), Lecturer and Assistant Animal Pathologist.

D. Fairbairn, B.A (Queens), Ph.D. (Rochester), Assistant Professor and Research Assistant in Parasitology.

P. H. H. Gray, M.A. (Oxon), D.Sc. (Lond.), Associate Professor of Bacteriology and Chairman of the Department.

C. S. Gundesen, B.Sc. (Bishop's), Sessional Assistant in Plant Pathology.

Lionel H. Hamilton, M.S. (Wisconsin), Associate Professor of Animal Husbandry, Director of Diploma Courses, and Field Representative.

A. A. Hanson, M.Sc., Lecturer in Agronomy (On leave of absence).

L. G. Heimpel, M.S. (Cornell), Associate Professor of Agricultural Engineering and Chairman of the Department.

C. A. Herald, M.Sc. (Dalhousie), Lecturer in Physics.

J. E. Lattimer, Ph.D. (Wisconsin), F.R.E.A., Professor of Agricultural Economics and Chairman of the Department.

E. A. Lods, M.S.A. Associate Professor of Agronomy.

R. A. Ludwig, MSc. (Alberta), Ph.D., Assistant Professor of Plant Pathology.

Allan Clyde Malloch, B.Sc. (Queen's), Lecturer in Agricultural Engineering.

W. A. Maw, M.SA., Associate Professor of Poultry Husbandry and Chairman of the Department.

Max J. Miller, M.Sc., Ph.D. (Tulane), M.D. (Queens,) Associate Professor and Research Assistant in Parasitology.

David L. MacFarlane, M.Sc. (Sask.), Ph.D. (Harvard), Professor of Agricultural Economics.

Clement Morin, B.Sc. (Agr.), Instructor in Dairying.

Frank O. Morrison, B.A., B.Sc. in Agriculture, M.Sc. (Alberta), Ph.D., Assistant Professor of Entomology.

J. E. Moxley, B.Sc. (Agr.), Lecturer in Animal Husbandry.

E. G. Munroe, MSc., Ph.D. (Cornell), Lecturer and Research Assistant in Parasitology.

H. R. Murray, MSc. (Cornell),, Associate Professor of Horticulture and Chairman of the Department.

A. R. Ness, B.S.A, Professor of Animal Husbandry and Chairman of the Department.

N. Nikolaiczuk, M.Sc. (Alberta), Assistant Professor of Poultry Husbandry.

A. N. Nussey, B.Sc. (Agr.), Lecturer in Pomology.

William Fraser Oliver, B.A. (McMaster), M.A., Ph.D. (Toronto), Assistant Professor of Physics.

J. M. Paton, M.A., B.Paed., (Toronto), Associate Professor of English and Chairman of the Department.

L. C. Raymond, M.S. (Wisconsin), Professor of Agronomy and Chairman of the Department.

W. Rowles, M.Sc., Ph.D., Associate Professor of Physics and Chairman of the Department.

J. F. Snell, B.A. (Toronto), Ph.D. (Cornell), F.C.I.C., F.C.S., Emeritus Professor of Chemistry.

William E. Swales, B.V.Sc. (Toronto), V.S. (Ontario), Ph.D., Associate Professor of Animal Pathology and Chairman of the Department.

F. S. Thatcher, Ph.D., Assistant Professor of Bacteriology.

W. E. Whitehead, M.Sc., Lecturer in Entomology.

SCHOOL OF HOUSEHOLD SCIENCE

Director:—Margaret S. McCready, B.A. (Toronto), Ph.D.,(Aberdeen), Associate Professor of Nutrition.

Barbara J. Everett, B.Sc. (H.Ec.), Assistant in Household Science: Dietitian.

Marjorie J. Guilford, B.Sc. (H.Ec.) (Manitoba), Lecturer in Home Economics.

F. Isabel Honey, M.A. (Toronto), Assistant Professor of Home Economics and Lecturer in Foods and Cookery and Educational Methods.

Marjorie M. Jenkins, B.Sc. (H.Ec.) (Alberta), Lecturer in Textiles and Clothing.

Ruby J. McNeill, B.Sc., (H.Ec.) (Acadia), Demonstrator in Home Economics.

Alice M. Stickwood, B.S., M.A. (Columbia), Lecturer in Foods, Dietetics and Institution Administration.

Margaret A. Trapp, B.Sc. (H.Ec.). Lecturer in Home Economics.

Edith B. Willis, B.A., Lecturer in Child Psychology.

Vera O. Wilson, M.A. (Toronto), Lecturer and Supervisor of the Home Management House.

SCHOOL FOR TEACHERS

Dean and Director:—Sinclair Laird, M.A., B.Phil., D. Paed., LL.D., Officier de l'Instruction Publique; Professor of Education.

Novah E. Brownrigg, B.A., Lecturer in French.

Mary F. Cameron, A.O.C.A., Lecturer in Art and Interior Decoration.

Rev. Francis A. C. Doxsee, B.A. (Oxon.), Honorary Lecturer in Religious Instruction.

Frank K. Hanson, Mus.D., Assistant Professor of Music.

J. M. Paton, M.A., B.Paed., Associate Professor of English and Chairman of the Department.

Dorothy J. Seiveright, M.A., Lecturer in History and Geography.

William A. Steeves, B.A., Ed.M., Assistant Professor of Mathematics.

Blanche Stewart, Lecturer in Kindergarten and Primary Methods.

Mary K. Varey, B.A., B.Sc. (Phys. Ed.), Instructor in Physical Training.

Rev. Canon F. L. Whitley, M.A., Honorary Lecturer in Religious Instruction.

MACDONALD HIGH SCHOOL (DEMONSTRATION AND PRACTICE SCHOOL)

Headmaster: MALCOLM DEF. DAVIES, B.A.

Teachers:

ANNE C. GRANT, B.A.
ETHELWYN HESLOP
IRIS HEUSSER
DOROTHY A. HOUSTON
JEAN INGLIS
MARJORIE W. KIRKPATRICK
NORMA MCCUAIG
FRANCES KEEPING, B.A.
JOSETTE OWEL
GRACE E. REVEL, French Specialist
JESSIE SNADEN, B.A.
FRANGA STINSON

MRS. J. MURRAY GIBBON, Honorary Librarian

ADMINISTRATIVE OFFICERS

Secretary and Assistant Bursar, Macdonald College
J. H. HOLTON, B.Com. (Toronto).

Registrar, Macdonald College
A. B. WALSH, B.Sc. (Agr.)

Assistant Secretary and Postmaster
FRED. G. HESLOP

Comptroller of the University and Executive Assistant to the Principal
S. H. DOBELL, D.S.O.

Bursar, McGill University
WILLIAM BENTLEY, C.G.A.

Registrar, McGill University
T. H. MATTHEWS, M.A.

Librarian
MARGARET C. MACINTOSH, M.A. (Queen's)

Medical Officer
R. F. KELSO, M.A., M.B.

Warden of Men's Residence
D. G. CHAPMAN, M.Sc.

Warden of Women's Residence
MRS. MARION G. STRANG

Dietitians
MARGARET R. STEWART, B.H.S. (Main Dining Room)
BARBARA J. EVERETT, B.Sc. (H.Ec.) (Glenaladale)

Director of Department of Physical Education (McGill University)
A. S. LAMB, B.P.E., M.D.

McGILL UNIVERSITY RURAL ADULT EDUCATION SERVICE

Secretary

R. ALEX. SIM, B.A. (Toronto), M.A. (Columbia)

HANDICRAFTS DIVISION

Director

RUTH SPRENGER

CALENDAR FOR SESSION 1947-48

1947

Tuesday, Sept. 2nd	Registration, School for Teachers.
Monday, Sept. 15th	Registration, Homemaker students.
Friday, Sept. 19th	Supplemental examinations begin, B Sc.(Agr.) and B.Sc. (H.Ec.) courses.
Tuesday, Sept. 23rd	Registration, second year B.Sc. (H.Ec.) students, and B.Sc. (Agr.) students taking Ag. Eng. 39, Hort. 31, 38, 39.
Tuesday, Sept. 30th	Registration, B.Sc. (Agr.), B.Sc. (H.Ec.) and Third Year Diploma Course students.
Wednesday, Oct. 1st	Lectures begin for B.Sc. (Agr.), B.Sc. (H.Ec.) and Third Year Diploma Course students.
Monday, Oct. 6th	Fall Convocation.
.....	Thanksgiving Day. No lectures.
Friday, Oct. 31st	Registration, Diploma Course students.
Monday, Nov. 3rd	Lectures begin, Diploma Course.
.....	General Assembly. Date to be announced.
Friday, Dec. 19th	Last day of lectures before Christmas, all schools.

1948

Tuesday, Jan. 6th	Lectures resumed in Agriculture and Household Science.
Monday, Jan. 5th to Friday, Jan. 9th inc.	Intermediate and Elementary classes, practice teaching, Montreal and elsewhere.
Monday, Jan. 12th	Lectures resumed in School for Teachers.
Thursday, Jan. 15th	First term lectures end, Agriculture and Household Science.
Monday, Jan. 19th	First term examinations begin, Agriculture and Household Science.
Monday, Jan. 26th	Second term begins, Agriculture and Household Science.
Tuesday, Feb. 10th	Macdonald College Founder's Day. No afternoon classes. (*Sir William C. Macdonald, born Feb. 10th, 1831, died June 9th, 1917.*)
Monday, March 22nd to Thursday, March 25th inc.	Intermediate and Elementary classes, practice teaching, Montreal and elsewhere.
Tuesday, March 23rd	Last day of lectures, Diploma Course.
Thursday, March 25th	Examinations begin, Diploma Course.
Friday, March 26th to Monday, March 29th inc.	Easter vacation.
Tuesday, March 30th	Lectures resumed, School for Teachers.
Saturday, April 3rd	Session ends for Diploma Course students.
Monday, April 5th	Supplemental examinations begin, Diploma Course.
Friday, April 16th	Last day of lectures, B.Sc. (Agr.) and B.Sc. (H.Ec.) courses.
Sunday, April 18th	Baccalaureate Service, 3:00 p.m.
Wednesday, April 21st	Examinations begin, B.Sc. (Agr.) and B.Sc. (H.Ec.) courses.
Saturday, May 1st	End of session for B.Sc. (Agr.) and B.Sc. (H.Ec.) students.
Wednesday, May 26th	Convocation.
Sunday, June 6th	Divine Service, School for Teachers and School of Household Science.
Thursday, June 10th	Closing Exercises, School for Teachers and School of Household Science. End of session.
.....	Farm Day. Date to be announced.

ADMISSION

A form of application for admission to the Faculty of Agriculture, including the School of Household Science, will be found at the end of the Announcement. Prospective students must read the details relating to entrance requirements.

Prospective students of the School for Teachers are referred to page 3093.

REGISTRATION

Students are required to register before 4 p.m. on the opening day of each session of the Faculty or School in which they have been accepted, and before entering residence to obtain a residence card from the Secretary's Office. Registration at a later date is permitted only to those who obtain the consent of the Dean or Director of the Faculty or School concerned.

Students are not permitted to enter any class until they have registered.

Students arriving before the opening day, or remaining after the close of the session, will be charged at the rate of $3.00 per day, unless such arrival in advance, or delay in leaving, is due to steamship connections.

Upon registering students are required to sign the following declaration:—"I hereby accept and submit myself to the rules and regulations of Macdonald College, and of the Faculty or School thereof in which I am registered, and to any amendments thereto which may be made while I am a student of the College, and I promise to observe the same."

RESIDENCE

All regular students are required to live in residence.

Rooms must be claimed in person on the opening day.

Students may not invite relatives or friends to stay overnight in the residence without permission from the Housekeeper or Warden of Residence.

For the admission of visitors to the Dining Room tickets must be procured in advance from the Office of the Dietitian, Women's Residence.

Students are held responsible for the care of their rooms and of their furnishings.

Students are recommended to mark clearly, in indelible ink, before coming to the College, all articles of wearing apparel, sheets, pillow cases, etc.

Detailed regulations are printed separately and issued to students after arrival.

CONDUCT AND ATTENDANCE

The general responsibility for the maintenance of discipline in each Hall of Residence is vested in a Warden, but, through a system of self-government, students are encouraged to accept the greatest possible

amount of responsibility in connection with their own affairs. Enforcement of necessary regulations, exaction of disciplinary measures, and regulation of conduct *in and out of residence*, is largely in the hands of a House Committee for each residence, elected by the students from among their own number.

Matters of discipline connected with or arising from the general arrangement for teaching within a Faculty or School are under the jurisdiction of the Dean of the Faculty or Director of the School concerned.

Students may be admonished by a professor or instructor for improper conduct and may be reported to the Dean or Director concerned. If considered advisable, such conduct shall be reported to parents or guardians.

Students found guilty of immoral, dishonest, or other improper conduct, the violation of rules, or wilfully causing damage to persons or property, shall be liable to College discipline, which includes the power of expulsion (subject to the approval of the Senate of McGill University), of suspension from classes or residence (in the case of women students, confinement to residence), of disqualification from competing for honours or prizes, and of levying of fines. Fines may also be imposed or assessments made for damages made by individuals or groups of students.

Bringing liquor into the College is considered a serious breach of discipline, and students who indulge in the use of liquor, or who frequent places where it is sold, may be required to withdraw from the College.

Students are not permitted to bring firearms into their rooms, nor is the use of firearms allowed on the College grounds.

Gambling is not permitted on College property.

Students are requested not to make application for additional leave either before or after holiday periods, as such leaves can only be granted in case of illness or other exceptional circumstances.

For late registration or for absence from classes on the last day before or the first day following a holiday period, there will be a penalty of $3.00 for each day or part of a day.

During illness students are under the direction of the Medical Officer and may not leave the residence without his express permission.

Punctual attendance at all classes, laboratory periods, tests, etc., is expected of all students. Absences can only be excused on the ground of necessity or illness, of which proof may be required. Special attention is called to the fact that the completion of all laboratory work is obligatory and the opportunity to make up work missed can only be provided in the case of properly excused absences.

The College has the power to refuse examinations to those students who persist in absenting themselves from classes without permission.

Any student who is unwilling to submit cheerfully to the restrictions of college life, whose conduct does not furnish satisfactory evidence of diligence and earnestness of purpose, or whose work is definitely unsatisfactory, may be required to withdraw from the college.

LEAVE-OF-ABSENCE

Women Students

In order to avail themselves of leave privileges, women students in residence must present at the beginning of the session a form signed by parent or guardian giving general permission or specifying the manner in which leaves may be spent. Forms for this purpose, and details of leave allowances, will be sent to all students before the date set for registration.

The amount of leave permitted is based on the student's year. A student is entitled to the leaves accorded those in her year only while in good academic standing. Conditioned students in the second, third or fourth year have the allowances granted to the year below.

Except in cases of emergency, telephone messages or telegrams requesting leave of absence for women students will on no account receive consideration.

Students wishing to stay at hotels, lodges, etc., while on leave, or to go on skiing trips, are required to have the written consent of their parents to do so.

On no account shall a student be absent from college without having complied with the regulations regarding registration of leaves, or without the knowledge and consent of the Warden. Absence from College without permission is a serious offence which renders the student liable to instant suspension or dismissal. If prevented from returning after an absence, due to illness or other cause, students must advise the Warden immediately, and these students must report to the Warden's office immediately upon their return.

Students are urged to have dental work attended to before entrance, though dental appointments will be allowed in cases of urgency. Appointments to visit a physician are allowed on production of a letter from the physician indicating the date and hour of the appointment.

All correspondence regarding the conduct of women students in residence should be addressed to The Warden, Women's Residence, Macdonald College, P.Q.

Men Students

First Year Diploma and Degree students must obtain permission from the Dean should they wish to have overnight leave-of-absence. All students who expect to be absent from the College should leave some record of their movements.

CONTAGIOUS OR INFECTIVE DISEASES

Students on holiday, or accepted candidates for admission, who become subject to an attack of any contagious or infective disease, or who reside in any dwelling in which any such disease exists, shall be subject to the following quarantine regulations:—

	Quarantine to be required after last exposure to infection.	Earliest date of return or admission to College after an attack.
Scarlet Fever	14 days	Six weeks, and then only if no desquamation or sore throat.
Diphtheria	12 days	Three weeks, if convalescence is complete, provided two negative throat cultures at least twenty-four hours apart have been obtained.
Measles	16 days	Three weeks, if all desquamation and cough have ceased.
Whooping-Cough	21 days	Six weeks from commencement of whooping, if the characteristic spasmodic cough and whooping have ceased. Earlier if all cough has gone.
German Measles	16 days	Two or three weeks, according to the nature of the attack.
Mumps	24 days	Two weeks after the disappearance of all swelling.
Influenza	14 days	Two weeks after disappearance of definite symptoms of influenza.
Typhoid	21 days	Four weeks if all symptoms have disappeared and convalescence is complete.
Small-pox	16 days	Two weeks after the desquamation (which follows the falling of scales) has completely terminated.
Chicken-pox	14 days	Ten days after the desquamation has completely terminated.

In all cases of students, or accepted candidates for admission, suffering from, or coming in contact with those suffering from any contagious or infective disease, a medical certificate shall be required before they are allowed to return to the College.

VISITORS TO STUDENTS

Saturday is visitor's day. In the afternoon, students are free to see their friends and show them around the buildings and grounds. Men visitors to women students are allowed only in the reception rooms in the Women's Residence, and only on specially arranged occasions.

MUSIC

Music finds a place in the recreative and social activities of the College. Concerts, organ recitals, lectures, etc., will be given from time to time. It is suggested that those having violins, cellos, or other orchestral instruments, should bring them.

FEES

The College reserves the right to make changes without notice in its published schedule of tuition, board and residence, and other fees.

	Consolidated fee (1)	Student activities		Four weeks room and board, in advance	Due on entrance	
		Men	Women		Men	Women
Faculty of Agriculture						
B.Sc. (Agr.) Course						
First and Second Year:						
Children of farmers of the Province of Quebec, of the Ottawa Valley in Ontario, or of the Maritime Provinces	34.00	15.00	10.00	36.00	85.00	80.00
Other residents of Canada	84.00	15.00	10.00	36.00	135.00	130.00
Students from outside Canada	134.00	15.00	10.00	36.00	185.00	180.00
Third and Fourth Years						
Residents of Canada	84.00	15.00	10.00	36.00	135.00	130.00
Students from outside Canada	134.00	15.00	10.00	36.00	185.00	180.00
Diploma Course						
Children of farmers of the Province of Quebec, of the Ottawa Valley in Ontario, or of the Maritime Provinces	21.00	9.55	10.00	36.00	66.55	67.00
All others	71.00	9.55	10.00	36.00	116.55	117.00
Partial Students						
All years, plus tuition at the rate of $5.00 per course per term	34.00	15.00	10.00	36.00	....	....

(1) Includes the following fees: registration, tuition (where applicable), laboratory, medical and nursing, laundry, breakage.

FEES (Continued)

	Consolidated fee (1)	Student activities	Four weeks room and board, in advance	Due on entrance
SCHOOL OF HOUSEHOLD SCIENCE				
B.Sc. (H.Ec.) Course				
All years				
Residents of Canada	133.00	10.00	36.00	179.00
Students from outside Canada	158.00	10.00	36.00	204.00
Homemaker Course:				
Children of farmers of the Province of Quebec	33.00	10.00	36.00	79.00
All others	233.00	10.00	36.00	279.00
Partial Students:				
All years, plus tuition at the rate of $5.00 per course per term	33.00	10.00	36.00	.....
SCHOOL FOR TEACHERS				
All classes: Men	24.00	11.35	36.00	71.35
Women	24.00	10.00	36.00	70.00

(1) Includes the following fees: registration, tuition (where applicable), laboratory, medical and nursing, laundry, breakage.

Residents of Canada, for purposes of determining fees, are defined as those whose parents, or who themselves, are *bona fide* taxpayers, or those who have resided continuously in Canada for at least two years.

The status of a student at entrance obtains through the course for which he registers.

OTHER FEES

Regular supplemental examinations, per paper	$ 2.00
Official transcript of record	1.00
Conferring degree *in absentia*	10.00

OTHER EXPENSES

Breakage Fee

Included in the consolidated fee is a non-refundable levy to cover fines, breakages, etc., as follows:

Faculty of Agriculture	$3.00
School of Household Science	2.00
School for Teachers	1.00

If the amount of fines, breakages, etc., exceeds this sum, such excess will be charged to the student on his or her monthly account.

Student Activities

Students entering the College are reminded that there are various student activities, such as the athletic associations, literary societies, class societies, etc., which they are expected to join. These affairs are in the hands of the students themselves, and the expenses of these organizations amount, for the session, as follows:—

	Men	Women
Degree Course students	$15.00	$10.00
Diploma Course students	9.55	10.00
Homemaker students	...	10.00
School for Teachers students	11.35	10.00

At the request of the students themselves, the above fees will be collected from all students for the support of the athletic associations, literary societies, skating rink, etc.

Living Expenses

The charges for board and lodging are $9.00 per week.

There are a few single rooms in each Residence; occupants of these are charged $1.50 per week extra.

Weekly laundry service at moderate prices is provided by a Montreal Laundry to which students may send their personal washing, sheets, pillow covers and towels. Printed lists will be furnished, two copies of which, properly filled out, must accompany each parcel.

Health Service

Medical and nursing attendance, major operations and illness excepted, will be provided to all students while in attendance at the College.

If a student's admission to a city hospital is ordered by the College Medical Officer, one half of all public ward charges is paid by the College, provided that the total obligation assumed by the College does not exceed 125.00 in any one session for any one student. Should a student desire private accommodation, the difference in cost must be borne by him.

This contribution towards hospital expenses is made only when the illness or other condition requiring hospital treatment was not present or was unknown or undetected at the time of admission.

A charge of 25 cents extra per meal will be made for all meals served in a student's room or outside the dining room, such meals being provided only when approved by the Resident Nurse.

Books

Books, etc., in connection with the various courses may be purchased at the College Book Shop. In order to reduce the expense of textbooks as far as possible to individual students, an arrangement has been made whereby students of the School for Teachers will pay to the Secretary the sum of $2.00 per session for the use of books in certain departmental libraries; this will save students the necessity of purchasing individual copies of expensive books.

Household Science Trips

Students in Household Science are taken to visit various institutions in connection with their work, from time to time during their course, more especially in the senior years. Each student is responsible for her own expenses, which are kept to the minimum amount.

Supplies

Material and supplies required for classes in Textiles and Clothing are provided by the students concerned and purchased at the direction of the instructor.

Room Furnishings

Bedrooms are furnished with closets, beds, mattresses, blankets, pillows, and the necessary furniture.

Each student is expected to provide his or her own laundry bag, toilet soap, drinking glass, four sheets, about 90 inches long, 60 inches wide; two pillow covers, 34 inches long, 20 inches wide; hand towels and bath towels

Each room is provided with picture moulding. Students are permitted to bring rugs, pictures, etc., but are not allowed to drive tacks or nails into walls or woodwork, or to paste pictures on the walls.

For the benefit of students wishing to provide covers, the following measurements are given:—

Table top:—48 inches long, 32 inches wide; bureau top:—42 inches long, 22 inches wide; Washstand top:—36 inches long, 18 inches wide.

Women students are required to provide sash curtains and curtain rods for the windows in their rooms.

Outfit Requirements for Women Students

School of Household Science— *B.Sc. (H.Ec.) and Homemaker Students.*

Uniforms.—Three new uniforms are necessary in first year and in Homemakers; 2 additional uniforms are required on entering third year. The material required is from 3½ to 4 yards for each uniform (12 yrs., 3½ yds.; 14 yrs., 3¾ yds.; 16 and 18 yrs., 4 yds.). It is 32 inches wide, 55 cents per yard and is obtained from the Secretary on receipt of amount covering quantity required. The material must be shrunk before being made up and to allow for further possible shrinkage, skirts should be made with a four-inch hem. Skirt should be of reasonable length according to present fashions. Sleeve should be just above the bend of elbow on the inside.

Pattern for the dress will be enclosed with dress material for fifty cents additional. Dresses must be made according to this pattern with matching belt and 3 or 4 white buttons; removable pearl buttons, 2 cents each, at College Book Shop. Dress pattern comes in sizes 32-40. Be sure to specify size required when ordering.

Collars.—Special white collars are to be worn with the dress and fastened by a bar pin, both of which should be obtained at the College Book Shop at 35 cents and $1.75 respectively. A collar must be obtained with the uniform material and be used in determining the opening at the neck of the blouse, which should be cut only low enough to permit of the collar being fastened in front by the bar pin. In addition to the pin the only jewellery permitted to be worn with the uniform is a watch and a class pin or class ring.

Aprons.—Four aprons of white cloth or linen, coming to within two inches of the bottom of the dress, are necessary for work at cookery classes. One coloured apron is required, the material to be the same as that of the uniform. Material required—3½ to 4 yards. This apron is required in first year by everyone.

Aprons should be made from a standard nurse's apron pattern, with gored skirt and bib top.

Towels.—Four small white huckaback hand towels, one-half yard long, with a button-hole in one corner to button to waistband.

Potholders.—Two, each six inches square, covered with dress material and a bias binding of same, with a white tape to button to waistband.

White aprons, towels and potholders are not required by B.Sc. (H.Ec.) students until they enter the second year.

All the above pieces must be marked clearly in indelible ink with student's name.

Shoes.—White *oxfords* with low rubber heels are required. Stockings must also be white.

Workbasket.—Equipped with scissors, tape line, thimble, etc., for clothing classes.

The uniform is worn at all classes and must be complete at all times. Prospective students are requested to note carefully the regulations with reference to it. If in doubt in regard to any detail, write to the Director of the School for information.

Candidates for admission should await notice from the College of their acceptance before ordering uniform material.

School for Teachers:—Two uniforms are necessary. The material required is from 4½ to 5 yards for each uniform. It is 32 inches wide, costs 65 cents per yard and is obtained from the Secretary on receipt of amount covering quantity required. The material must be shrunk before being made up and, to allow for further possible shrinkage, skirts should be made with a six-inch hem. Skirt should be of reasonable length according to present fashions. Sleeves must be long. Pattern for dress will be enclosed with the material for 50 cents additional. *Dresses must be made according to this pattern. Patterns come in sizes 32—40. Be sure to specify size required when ordering.*

Special white collars are to be worn with the dress and fastened by a bar pin, both of which should be obtained at the College Book Shop at 35 cents and $1.75 respectively. A collar must be obtained with the uniform material and be used in determining the opening at the neck of the blouse, which should be cut only low enough to permit of the collar being fastened in front by the bar pin. In addition to the pin the only jewellery permitted to be worn with the uniform is a watch and a class pin or class ring.

Comfortable shoes with low rubber heels are required, and may be either black or brown. Stockings must correspond in colour with shoes worn.

The uniform is worn at all classes, and prospective students are requested to note carefully the regulations with reference to it. If in doubt in regard to any detail write to the Dean for information.

A smock of printed material (cretonne) is useful when teaching certain subjects and when engaged in practical work.

Candidates for admission should await notice of their acceptance before ordering uniform material.

Gymnastic Costume

Women students taking work in the gymnasium will be required to wear the regulation gymnastic costume consisting of a tunic, shirt waist, knickers, black running shoes, and *extra long* non-transparent black stockings. Tunics should be rented from the College Book Shop for the session; stockings may be purchased there also. Round garters must *not* be worn with gymnastic costume.

Students wishing to swim must provide themselves with woolen bathing suits of guaranteed fast colour.

PAYMENTS

All fees are payable in advance. There is no refund of fees to students who leave for any cause other than personal illness, nor to those who are dismissed for neglect of work or violation of the rules.

Payments for board and lodging must be made from time to time throughout each term, at the beginning of each period of four weeks, *strictly in advance.*

Payments in advance may be made for a longer period than four weeks.

No allowance is made for absence during temporary suspension from residence, nor for absence of less than one week. No extra allowance will be made to students who have obtained pre-holiday leave.

Students who fail at any time to make payment for board and lodging promptly in advance *will be charged $2.00 extra* for each time such failure occurs.

A list of the registered students whose accounts with the Secretary are in arrears will be sent to the Dean or Director of the Faculty or School concerned, on receipt of which the Dean, or Director, shall cause their names to be struck from the registers of attendance, and such students cannot be readmitted to any class or residence except on presentation of a special notice signed by the Secretary, certifying to the settlement of such account.

The Administration Office will be open to receive payments from 9 a.m. to 4:30 p.m. daily—except Saturday, on which day the hours will be from 9 a.m. to 12 noon.

All cheques, money orders, etc., should be drawn to the order of "The Secretary, Macdonald College, Que." to whom all remittances, orders for dress material, etc., must be directed.

PROVINCIAL GOVERNMENT GRANT

The Department of Agriculture of the Province of Quebec grants to each graduate and undergraduate student in Agriculture who belongs to the

Province of Quebec, and is registered for regular courses, $9.00 per month of attendance in studying according to the time table in the Faculty of Agriculture, Macdonald College, to apply on board and lodging. This amount will be paid in two instalments, in January and in May.

FACULTY OF AGRICULTURE

The following courses of study are offered in the Faculty of Agriculture:—

I. Courses in Agriculture:—
- (a) Partial Courses (page 3029).
- (b) A two-year Diploma Course (page 3029).
- (c) Advanced Diploma Course (page 3036).
- (d) A four-year Course leading to the Degree of Bachelor of Science in Agriculture, [B.Sc. (Agr.)] (page 3037).
- (e) Graduate Courses in the Faculty of Graduate Studies and Research McGill University (page 3072).

II. Courses in Household Science:—
- (f) Partial Courses (page 3080).
- (g) A one-year (Homemaker) Course (page 3080).
- (h) A four-year Course leading to the Degree of Bachelor of Science in Home Economics (B.Sc. [H.Ec.]) (page 3083).

ENTRANCE REQUIREMENTS

General

All candidates for admission:—

1. Except where otherwise provided, must have passed their seventeenth birthday.

2. Must produce satisfactory evidence as to moral character.

3. Must produce medical certificate of physical health. A certificate of vaccination must be attached as follows:—(a) Successful vaccination within seven years; or, (b) Immunity to vaccine after two recent unsuccessful vaccinations—such certificate of immunity to be good for five years from date.

When the number of women candidates is in excess of the accommodation, preference will be given to those from the rural districts of Quebec, the Maritime Provinces, and Eastern Ontario.

NOTE:—Form of application for admission will be found at the end of the announcement.

Permission to Study

Every candidate for admission to the Degree Course in Agriculture must, before beginning his course, obtain approval of his application from La Corporation des Agronomes, if he intends to practise as a professional agriculturist in the Province of Quebec after graduating. Forms of Application for Permission to Study and full particulars may be obtained from

La Corporation des Agronomes de la Province de Quebec, Room 410, 10 St. James St. W., Montreal, or from the Registrar, Macdonald College.

Failure to comply with the regulations of the Corporation may cause a delay of a year or more before the candidate may be legally authorized to practise his profession in the Province of Quebec. Application for permission to study must be made before August 1st, 1947.

Deposit with Application

A deposit of $5.00 must accompany each application for admission to any course in Agriculture or Household Science; this deposit, if the application is accepted, will be applied on account of payments due at entrance. If the application is not accepted the deposit will be returned. Applicants cancelling their application or failing to register will forfeit the amount deposited.

I. COURSES IN AGRICULTURE

(a) PARTIAL COURSES

Partial courses may be taken as follows:—

1. In one or more courses of the B.Sc. (Agr.) curriculum by matriculated students who shall be designated partial students of the Degree Course.

2. In one or more courses of the Diploma Course curriculum by students who shall be designated partial students of the Diploma Course.

3. At the option of the Dean and the departments concerned, partial students of the Diploma Course may be permitted to follow certain courses of the Degree Course curriculum, though not for credit towards a degree. Such students shall pay the tuition fees applying to courses of the Degree Course curriculum.

The main purpose of the Partial Course is to enable students from other faculties or other universities to integrate their previous courses with those at Macdonald College. No student proceeding to a degree will be permitted to register for more than one session as a partial student. Applications in all cases must be approved by the Dean of the Faculty of Agriculture, and registration must be made in the regular way before students enter upon their work.

For regulations regarding fees applicable, see page 3021.

(b) DIPLOMA COURSE

This is a two year course of five months' duration in each year commencing about November 1st, and finishing about March 31st. It affords a special opportunity of spending one or two winter season in studying Agriculture, and the time is selected with a view to interfering as little as possible with farm operations. It is intensely practical in character and is designed with the following objects in mind:—To give the largest amount of information and training in practical agriculture in the shortest possible time; to equip the student for solving his future problems; to

awaken him to the many opportunities on the farm; to give him an inspiration in his agricultural work; and to enable him to fill a more useful place in rural citizenship.

The work of the first year is taken by all students in common; in the second year a student may choose subjects that have to do either with dairy farming or fruit farming. A diploma will be granted to each student who completes the two years' work successfully.

Diploma Course Entrance

1. For General Requirements, see page 3028.

2. All candidates for admission to the Diploma Course must have passed their sixteenth birthday and will be required to read and write the English language acceptably, to be proficient in the use of arithmetic and to demonstrate a practical knowledge of farm operations.

Diploma Course Syllabus

(See page 3073)

DESCRIPTION OF DIPLOMA COURSES

AGRICULTURAL ENGINEERING

1. Farm Machinery.—A study of the gas engine as applied to stationary purposes, the automobile and the tractor. (b) Implements and Machinery. The use and adjustments of tillage and harvesting machinery.

1st Yr.:—1 lect., 3 labs., per wk., 1st term. Mr. Malloch.

2. Farm Construction.—(a) Farmstead planning including the arrangement of the various buildings, the planning of houses and barns; fences and fencing. (b) Carpentry and concrete work.

1st Yr.:—1 lect., 2 labs., per wk., 2nd term. Professor Heimpel.

Text Book:—Stewart—Engineering on the Farm.

6. Land Drainage.—The water table and its control; surface drains and underdrainage. (b) Farm Sanitation. Water supplies and water systems, methods of sewage disposal.

2nd Yr.:—2 lect., 2 labs., per wk., 1st term. Professor Heimpel.

7. Farm Shopwork.—Blacksmithing, rope splicing, soldering and farm plumbing.

2nd Yr.:—1 lect., 2 labs., per wk., 2nd term. Professor Cooper.

Text Book:—Jones—Farm Shop Practice.

AGRICULTURE

1. A general course on Agriculture designed to give the student a proper conception of farming as an occupation and an appreciation of some important considerations in the selection and operation of farms.

1st Yr.:—1 lect., per wk., 2 terms. Professor Hamilton.

AGRONOMY

1. Soils and Soil Management.—Classes of soil, tillage, rotation, manuring, fertilizers, liming, drainage, etc., will be studied with a view to enabling the student to manage the soil on his own farm to best advantage.

1st Yr.:—3 lects., per wk., 1st term. Professor Lods.

3. Hay and Pasture Crops.—These crops will be studied from the standpoints of their importance, varieties, culture and management.

1st Yr.:—2 lects., 1 lab., per wk., 2nd term.

5. Corn and Root Crops.—As with Hay and Pasture Crops.

1st Yr.:—3 lects., per wk., 2nd term. Professor Cowan.

7. Crop Management.—Factors determining the crops to grow, cropping schemes for typical situations in Eastern Canada. Fertilizers and seed will be given further attention in this course.

2nd Yr.:—2 lects., 1 lab., per wk., 2nd term. Professor Raymond.

9. Grain Crops.—As with Hay and Pasture Crops.

2nd Yr.:—2 lects., 1 lab., per wk., 1st term. Professor Lods.

ANIMAL HUSBANDRY

1. Farm Live Stock.—Commercial types and classes of farm stock, their care and management; feeding; breeding; and judging.

1st Yr.:—3 lects., 2 labs., per wk , 1st term; 2 lects., 2 labs., per wk., 2nd term. Professors Ness and Hamilton.

6. Farm Live Stock.—A continuation of course 1, but dealing particularly with purebred stock.

2nd Yr.:—2 lects., 2 labs., per wk., 2 terms. Professors Ness and Hamilton

7. Live Stock Breeding.—In this course the more important basic principles underlying breeding practice are considered. Selection of breeding animals is studied in the light of what is known in regard to reproduction, transmission of characters, heredity, and environment.

2nd Yr.:—2 lects., per wk., 2nd term. Professor Hamilton.

ANIMAL NURSING

6. The course will cover situations usually encountered by farm managers and herdsmen.

2nd Yr.:—2 lects., 1 lab., per wk., 2nd term, Dr. Durrell.

BACTERIOLOGY

1. Bacteriology.

1st Yr.:—1 lect., 1 lab., per wk., 2nd term. Professor Thatcher.

BOTANY

1. Agricultural Botany.—The course consists of a study of the fundamentals of growth and reproduction processes in plants. The botany of economic plants will be studied as much as possible and consideration given to weeds and weed seeds and their control.

1st Yr.:—2 lects., 1 lab., per wk., 1st term. Professor Ludwig.

CHEMISTRY

1. Elementary Chemistry, with applications to soils, fertilizers, feeding stuffs, and insecticides and fungicides.

1st Yr.:—2 lects., 1 lab., per wk., 1st term. Professor DeLong.

DAIRYING

6. Care of milk, separating, testing, buttermaking, and the marketing of dairy products.

Quebec Provincial examinations will be set in milk and cream testing and milk analysis. Students passing these examinations will receive a provincial Milk Tester's certificate.

2nd Yr.:—2 lects., 2 labs., per wk., 2nd term. Mr. Morin.

ECONOMICS

7. Principles of Marketing and Co-operation.—Marketing methods, agencies and services. Cycles in production and prices. Collective bargaining. Co-operation and the pooling of farm products.

2nd Yr.:—3 lects., 1 lab., per wk., 1st term. Professor Lattimer.

8. Farm Organization and Management.—Specialization in farming. Adaptability of types of farming to various localities. The size of farms. Land values and farm wages.

2nd Yr.:—2 lects., 1 lab., per wk., 2nd term. Professor Lattimer.

ENGLISH

The students will be divided into a Senior and a Junior Group according to their attainments in English Speech and Literature:—

2.

1st Yr.:—3 lects., per wk., 2 terms. Professor Avison.

7.

2nd Yr.:—1 lect., 1 lab., per wk., 2 terms. Professor Avison.

ENTOMOLOGY

3. An elementary treatment of the structure, habits, classification and control of insects.

1st Yr.:—2 lects., 1 lab., per wk., 2nd term, Professors Brittain and Morrison.

HORTICULTURE

4. General Horticulture.—A course dealing with the principles of farm horticulture, including the home garden, the propagation of plants, seed sowing, the improvement of the home surroundings, the farm orchard and horticultural cash crops for the farmer, such as potatoes, canning crops and some small fruits.
1st Yr.:—1 lect., 1 lab., per wk., 2 terms.

6. Vegetable Gardening.—The production of vegetables with reference to climate, soils, fertilizers, seeds, spraying, harvesting, grading, packing, storage, marketing and canning, with practical instruction in the greenhouse and laboratory throughout the course.
2nd Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor Murray.

7. Ornamental Gardening.—Foundation planting; choice and care of ornamental trees, shrubs, vines, and flowers for the home grounds, and the making and care of lawns. Some instruction will be given in commercial floriculture.
2nd Yr.:—2 lects., 1 lab., per wk., 1st term.

8. Fruit Growing.—A practical study of orchard and small fruit production, including propagation, soils, fertilizers, culture, and other related phases, including spraying, harvesting, marketing, and storage. One lecture per week during the second term will be used for complementary work on spray machinery, cold storage, by-products, etc.
2nd Yr.:—2 lects., 2 labs., per wk., 1st term.
3 lects., 2 labs., per wk., 2nd term. Mr. Nussey.

MATHEMATICS

1. A review of elementary arithmetic; decimals, percentage, ratio and proportion, mensuration and farm business accounting.
1st Yr.:—1 lect., 1 lab., per wk., 2 terms. Mr. Malloch. (Agricultural Engineering Department.)

6. A continuation of course 1 with particular attention to areas and volumes as applied to contents of tanks, bins, haystacks, silos and barn lofts.
2nd Yr.:—2 lects., per week., 1st term. Professor Heimpel. (Agricultural Engineering Department.)

NUTRITION

6. Feeds and Feeding.—An elementary study of common animal feedingstuffs, and of their use in livestock feeding.
2nd Yr.:—2 lects., per wk., 1st term. Mr. Ashton.

PHYSICS

6. An elementary course dealing with the fundamental principles of Physics and their application in agricultural practice.
2nd Yr.:—1 lect., 2 labs., per wk., 1st term. Professor Oliver.

PLANT PATHOLOGY

6. Plant Diseases.—Studies of important plant diseases in horticultural crops, including losses, symptoms, cause and spread.
2nd Yr.:—(Fruit Farming Group):—2 lects., 1 lab., per wk., 2nd term. Professor Ludwig.

POULTRY HUSBANDRY

1. Productive Poultry Husbandry.—The elements of poultry production and marketing applicable to general farm use. A study is made of the various breeds of chickens, ducks, geese, and turkeys and their general management through a complete production cycle.

1st Yr.:—2 lects., 1 lab., per wk., 2 terms. Professor Nikolaiczuk.

6. Advanced Poultry Problems.—The economic significance of the various factors influencing production returns on the basis of poultry management.

2nd Yr.:—2 lects., 1 lab., per wk., 2nd term. Professor Maw.

7. Poultry Breeding and Marketing Improvement.—A study of the basic factors in poultry breeding and product marketing in relation to the improvement policies of the industry. Elective.

2nd Yr.:—2 lects., 1 lab., per wk., 1st term. Professor Maw.

PROJECT

6. Second year students are required to submit a project in the form of an essay and a questionnaire to be handed in not later than March 15th.

The project work shall comprise the outlining of a farm enterprise together with the procedure to be followed in establishing and developing it. The farm may be owned or rented. Particulars must include a financial forecast, in detail, of yearly expenditures and returns for a period of five years as well as an estimate of the money required over and above what the farm may return.

Questionnaire forms having to do with finding farm facts will be distributed before the close of the first year. They must be filled in during the summer and submitted as a part of the project.

The project will rank as a subject with an allowance of 100 marks and will become the property of the College.

2nd Yr.:—The equivalent of 2 labs., per wk., 2 terms.

Supervising Committee:—Professor Hamilton (Chairman), Professors Lattimer, Raymond and Nikolaiczuk.

Diploma Course Examinations

All students will be required to give satisfactory evidence of mastery of the material of lecture and laboratory. Examinations will be held at the end of the first term in all courses given and at the end of each course. The examiner will pass in to the Registrar the final mark giving the standing of each student in all the work of the course.

Students who obtain 75 per cent and over are placed in the first class; those who obtain 60 and less than 75 per cent, in the second class; and those who obtain 40 and less than 60 per cent, in the third class.

For purposes of evaluation a full course shall be two lectures and two laboratory periods per week for one term or its equivalent and shall be rated at 100 marks. One lecture equals one laboratory period. More or less than full courses shall be rated proportionately. Students conditioned in papers of an aggregate value of 250 marks or less will be required to write supplemental examinations in those subjects. Students conditioned in papers having an aggregate value of more than 250 marks will be considered as having failed in the year's work.

Students who fail in the first year of the Diploma Course in Agriculture will not be permitted to repeat the year, except by special action of the Faculty of Agriculture.

A student who is allowed to repeat a year may, by special permission, be exempted from attending lectures and passing examinations in one or more subjects in which he has already passed creditably and be required to take one or more subjects of the following year in his course. The choice of subjects must involve no conflict of hours in the time table.

For absences from classes, see page 3018.

Examination in any subject may be refused because of absence without accepted excuse from one or more classes in the subject. See page 3018.

Regular Supplemental Examinations.—A regular supplemental examination is a first supplemental examination in a subject.

Regular supplemental examinations will be held immediately preceding the opening of lectures in January, on a date or dates to be fixed; and following the sessional examinations in the spring.

A first supplemental examination in a subject, not involving the preparation of a special paper, may also be arranged in conjunction with the regular sessional examinations.

Special Supplemental Examinations.—Supplemental examinations taken at other times than those appointed, and supplemental examinations taken subsequent to a first supplemental examination, will be considered as special supplementals and must be arranged with the Registrar.

Every candidate for either a regular or a special supplemental examination is required to fill out an application form for such examination and to return it with the necessary fee (for which see page 3022) at least three weeks before the examination begins. Application forms may be obtained from the Registrar.

No student writing a supplemental examination in a subject shall be granted marks higher than the required pass mark—i.e., 40%.

(c) ADVANCED DIPLOMA COURSE

Students who obtain at least high second-class standing in each year of the Diploma Course, may continue for a further year. For admission to the third year the candidate's application and schedule of courses and any revision thereof must receive the approval of the Faculty.

The course is intended for those who do not desire a degree but are anxious to extend their educational equipment beyond the two year course and to train themselves for the responsibilities of rural leadership. It is designed to permit those of good ability and some maturity to pursue a course where more emphasis is placed upon private study and individual effort than is possible during the first two years, when lectures and class-room exercises consume the bulk of the student's time.

During the session, which, for the Advanced Diploma Course, will date from the opening of the Degree Course, the student's time will be divided between assigned studies, projects, and departmental work. His curriculum will include reading, preparing reports, writing essays, and course work.

The course is not rigidly prescribed and is intended to be of a broad and general character. Nevertheless, it provides opportunity for the student to pay special attention to those phases of agriculture in which he is particularly interested. The courses taken will be selected from those listed below, but the student may be permitted to attend others which may be of value to him. The courses will be selected in consultation with the Chairman of the Diploma Course Committee.

At the end of his course of study, the student will submit himself to examinations in the individual courses taken when required, and to a series of comprehensive examinations in practical and scientific agriculture, written and oral, set by a Board of Examiners appointed for the purpose.

An Advanced Diploma in Agriculture may be awarded at the completion of the year's work or may be withheld until the student has demonstrated the necessary capacity in the work undertaken.

Only a limited number of students will be accepted each year.

Courses may be chosen from the following list, supplemented, if desired, by others approved by the Faculty:—

Agricultural Engineering:—31, 32, 33, and 34.
Agronomy:—31, 32, 33, 36, and 43 (1st term).
Animal Husbandry:—30, 34, 35, 41, 45 and 46.
Botany:—30
Comparative Physiology and Pathology:—30, 31, and 32.
Economics:—*20, 30, 31, and 32.

English:—*14, *26.
Entomology:—34.
Extension Methods:—*30.
Horticulture:—31, 33, 38, 39, and 40.
Plant Pathology:—31.
Poultry Husbandry:—31, 33, 35, and 38.

(d) B.Sc. (AGR.) COURSE

This is a four-year course leading to the degree of Bachelor of Science in Agriculture; the degree when abbreviated shall be designated B.Sc. (Agr.).

The curriculum is organized with equal standards and similar plans to those of the other faculties of the University. During the first two years the work undertaken is common to all students and is limited to subjects which are basic in the study of all branches of agriculture. In the third and fourth years the student may specialize in a single branch of agriculture, or, in special cases, he may choose a combination of related subjects. In either case the outline of work must offer a comprehensive training in the major work and cognate subjects.

ENTRANCE

1. For General Requirements see page 3028.

2. All candidates for admission to the four year course leading to the B.Sc. (Agr.) degree shall produce one of the certificates indicated below. With the modifications noted, this will apply also to all candidates for admission to the B.Sc. (H.Ec.) course.

a. A certificate of having passed the Junior School Certificate examination for entrance to the Faculty of Agriculture, which is held in June at McGill University and at other centres, and in September at McGill University only. All enquiries relating to such examination should be addressed to The Registrar, McGill University, Montreal, Que.

Every candidate must make application on a form which may be obtained from the Registrar's office, McGill University, Montreal. This application, with the proper fee, must reach the Registrar's office before 20th May for the June examination and before 20th August for the September examination. After these dates application may be accepted for the Montreal centre only. A special late fee of $1.00 is charged for such applications. The fee is $1.00 per paper with a minimum fee of $2.00 and a maximum fee of $10.00.

For the convenience of candidates in Great Britain who are not otherwise qualified for entrance, an examination will be held regularly in London, Eng., each June. Full information regarding dates, fees, etc., may be obtained from the Honorary Representative of the University, W. A. Bulkeley-Evans, C.B.E., M.A., LL.D., 5 Paper Buildings, Temple, London, E.C. 4.

*The courses marked with an asterisk are required and examinations must be taken in them.

Subjects required for matriculation into the Faculty of Agriculture are:

Group	No. of Papers	
1.	2	English
2.	1	History
3.	2	Latin *or* French *or* German *or* Spanish (French preferred)
4.	2	Elementary Mathematics
5.	1	Physics or Chemistry or Biology
		EITHER
6.	2	Latin or French or German or Spanish (if not already chosen),
		OR
		Any two of the following papers not already chosen:—
		a. Intermediate Algebra
		b. Intermediate Geometry and Trigonometry
		c. *Botany
		*Biology
		d. Chemistry
		e. Physics
		f. †Drawing
		g. Geography
		h. †Music. (B.Sc. (H.Ec.) candidates only. Music and Drawing may not both be chosen.)
	10	Total 10 papers.

An examination in Zoology of other reputable universities or recognized public examining boards will be accepted as an alternative to Botany or Biology.

For complete matriculation a candidate must pass in every one of the above ten papers and obtain an average mark of at least 60% in the ten papers combined. A student, however, who fails in one or more of the papers may obtain matriculation standing provided (a) his average in the ten papers is not less than 65%, and (b) he has no mark in any of the ten papers below 40%.

Candidates for admission to the B.Sc. (Agr.) or B.Sc. (H.Ec.) Degree Course are expected to have complete matriculation, but may be permitted to enter as conditioned undergraduates provided they have not failed in papers of an aggregate of more than 200 marks.

Except by special action of the Faculty no student will be permitted to carry a matriculation condition into the second year.

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*Botany and Biology may not both be chosen.

†The High School Leaving Examination in Household Science will be accepted as an alternative to Music or Drawing for admission to the B.Sc. (H.Ec.) Course.

b. The following certificates will be accepted in lieu of the Junior School Certificate examination for admission to the Faculty of Agriculture, provided that pass standing, according to the standards of the various examining bodies, is shown thereon in the subjects required in "a" above:

Province of Quebec:—
The High School Leaving Certificate.
The Catholic High School Leaving Certificate.

Province of Ontario:—
Middle School Certificate.

Province of New Brunswick:—
Junior Matriculation.

Province of Nova Scotia:—
Grade XI Certificate.

Province of Prince Edward Island:—
Second Year Certificate of Prince of Wales College.

Province of British Columbia:—
Junior Matriculation.

Province of Manitoba:—
Grade XI Certificate.

Provinces of Alberta and Saskatchewan:—
Grade XI Certificate.

Newfoundland:—
Junior Matriculation.

United States:—
Certificates granted by the College Entrance Examination Board.

c. Great Britain:—
The School Certificate of the recognized examining bodies with five credits.

The University of London Matriculation.

The Certificate of Fitness of the Scottish Universities Entrance Board.

d. Miscellaneous:—

Other certificates, such as those issued by reputable universities or recognized public examining boards, will be judged on their merits and accepted in so far as they meet the entrance requirements.

Intending students who wish to enter by certificate should under no circumstances come to the College without having obtained from the Registrar a statement of the value of the certificates they hold.

Students with incomplete requirements may obtain standing in subjects included in the McGill School Certificate by writing McGill examinations.

3. *Farm Experience.* All candidates for the course leading to the B.Sc.(Agr.) degree must have had at least one season's experience on an approved farm, and must pass a practical test in ordinary farm operations. This experience can only be deferred by special action of the Faculty, and only in special cases.

College and experimental farms, while affording excellent opportunities in special lines of work, are not approved for purposes of general experience.

COURSE REQUIREMENTS

The requirements for graduation shall be:—

(a) Pass standing, in all courses outlined on page 3074 for the first and second years, as stated on page 3070.

(b) Pass standing in the third and fourth year courses equivalent to a minimum of 11 courses.

(c) Satisfactory distribution and concentration of courses:—See *Courses of Study* below.

(d) Satisfactory fulfilment of regulations concerning summer work for specialists.

EVALUATION OF COURSES

For the purposes of evaluation, a full course shall consist of three lectures per week throughout the year, and shall be rated at 150 marks. A two-hour laboratory period equals one lecture period. More or less than full courses shall be rated proportionately. Where the unit of instruction is considered to be a single period per week per term, six units would constitute a full course.

COURSES OF STUDY

Before entering upon the third year, students shall prepare, in consultation with the professors under whom major subjects are to be taken, summaries of courses to be taken in the third and fourth years, which shall include the equivalent of not less than 11 nor more than 12½ full courses (*i.e.*, from 66 to 75 units). Term schedules must be approved by the Faculty.

During the third and fourth years, students may specialize in any on of the following subjects. In special cases, and when approved by Faculty. a combination o: two subjects may be arranged. In this case not less than 3½ full courses (21 units) must be taken in each subject.

MAJOR SUBJECTS OFFERED

Agricultural Engineering
Agronomy
Animal Husbandry
Bacteriology
Chemistry
Economics
Entomology
Entomology-Parasitology
Horticulture
Plant Pathology
Poultry Husbandry

In addition to the foregoing, courses are offered in General Agriculture and in General Biology, as follows:—

General Agriculture.—This option is designed for students who do not care to follow one of the specialized courses offered but who wish to obtain a general training in agriculture together with the basic sciences. It offers the type of training asked for by those wishing to farm, to do extension work or enter the commercial field. It is arranged to meet the requirements of students who wish to give special attention to combinations of subjects which are not provided for otherwise. Though planned as a general course, it provides the possibility of pursuing graduate studies.

General Biology.—This option is designed for students who do not desire to take one of the more rigid professional courses during their undergraduate years, but rather to select courses which will serve as a foundation to later specialization in one of the fields of Applied Biology as it relates to agriculture. The courses in this option are arranged so that the student may emphasize either the botanical or the zoological sciences.

The following are the courses which are obligatory in the various options. Any additional courses needed to make up the minimum requirements of 66 units may be selected from any courses listed in the Announcement, subject to time table restrictions. No schedule may contain more than 75 units.

AGRICULTURAL ENGINEERING

Third Year		Units 1st Term	Units 2nd Term
Agricultural Engineering	34	..	4
Agricultural Engineering	35	3	3
Agricultural Engineering	37	2	2
Agricultural Engineering	38	3	3
*Animal Husbandry	34	..	3
Chemistry	42	..	2
Economics	32	3	..
Entomology or Plant Pathology	31	4	..
Mathematics	30	1	1
		16	18

Fourth Year		Units 1st Term	Units 2nd Term
Agricultural Engineering	32	..	2
Agricultural Engineering	33	4	..
Agricultural Engineering	36	..	3
Agricultural Engineering	39	4	2
Agricultural Engineering	40	3	3
Agronomy	43	2	2
Agronomy	430	1	1
Chemistry	33	4	..
Physics	36	2	..
		20	13

Third or Fourth Year
(depending on session offered)

		2nd Term
Agricultural Engineering	31	4

Total — 71 units

*In 1947-48 only, will be 4 units, 1st term.

AGRONOMY

Production and Plant Breeding Group

Third Year		Units 1st Term	Units 2nd Term
Agronomy	31	..	4
Agronomy	33	..	3
Agronomy	34	2	2
Agronomy	36	3	..
Bacteriology	30	..	4
Botany	30	..	2
Botany	300	..	2
Botany	33	2	1
Chemistry	32	2	..
Chemistry	42	..	2
Chemistry	420	..	1
Genetics	30	3	..
Genetics	300	2	..
Physics	33	4	..
		18	21

Fourth Year		Units 1st Term	Units 2nd Term
Agricultural Engineering	33	4	..
Agronomy	32	3	..
Agronomy	35	..	3
Agronomy	38	..	2
Agronomy	42	..	2
Animal Husbandry	34	..	3
Chemistry	33	4	..
Economics	31	..	3
Entomology	34	4	..
Physics	36	2	..
Plant Pathology	31	4	..
		21	13

Total — 73 units

AGRONOMY

Production and Soil Fertility Group

Third Year		Units 1st Term	Units 2nd Term
Agronomy	31	..	4
Agronomy	33	..	3
Agronomy	34	2	2
Agronomy	36	3	..
Bacteriology	30	..	4
Botany	30	..	2
Botany	300	..	2
Botany	33	2	1
Chemistry	32	2	..
Chemistry	320	2	..
Chemistry	42	..	2
Chemistry	420	..	1
Genetics	30	3	..
Genetics	300	2	..
Physics	33	4	..
		20	21

Fourth Year		Units 1st Term	Units 2nd Term
Agricultural Engineering	39	4	..
Agronomy	32	3	..
Agronomy	38	..	2
Bacteriology	32	4	..
Chemistry	30	2	2
Chemistry	301	3	3
Chemistry	33	4	..
Chemistry	48	..	2
Chemistry	480	..	2
Physics	36	2	..
		22	11

Total — 74 units

ANIMAL HUSBANDRY

Third Year		Units 1st Term	Units 2nd Term
Animal Husbandry	30	3	..
*Animal Husbandry	34	..	3
Animal Husbandry	35	..	3
Animal Husbandry	38	..	2
Animal Pathology	30	..	3
Bacteriology	30	..	4
Chemistry	32	2	..
Chemistry	320	2	..
Chemistry	47	..	2
Genetics	30	3	..
Genetics	300	2	..
Physics	33	4	..
		16	17

Fourth Year		Units 1st Term	Units 2nd Term
Agronomy	43	2	2
Agronomy	430	1	1
Animal Husbandry	41	..	3
Animal Husbandry	42	3	..
Animal Husbandry	43	3	..
Animal Pathology	31	3	..
Animal Pathology	34	..	3
Dairying	30	4	..
Economics	31	..	3
Nutrition	30	2	2
Nutrition	300	..	2
Nutrition	32	..	2
		18	18

Total — 69 units

BACTERIOLOGY

Third Year		Units 1st Term	Units 2nd Term
Animal Pathology	30	..	3
Bacteriology	30	..	4
Bacteriology	33	..	4
Botany	34	2	..
Chemistry	30	2	2
Chemistry	300	4	4
Chemistry	32	2	..
Chemistry	320	2	..
Chemistry	47	..	2
Chemistry	470	..	2
Physics	33	4	..
		16	21

Fourth Term		Units 1st Term	Units 2nd Term
Bacteriology	32	4	..
Bacteriology	34	..	4
Bacteriology	35	..	4
Bacteriology	36	3	3
Bacteriology	37	1	1
Bacteriology	38	4	..
Chemistry	48	..	2
Chemistry	480	..	2
Chemistry	51	4	..
		16	16

Total — 69 units

*In 1947-48 only, will be 4 units, 1st term.

CHEMISTRY

Animal Biochemistry Group

Third Year		Units 1st Term	Units 2nd Term	Fourth Year		Units 1st Term	Units 2nd Term
Animal Pathology	30	..	3	Bacteriology	34	..	4
Bacteriology	30	..	4	Chemistry	39	3	3
Chemistry	30	2	2	Chemistry	40	3	3
Chemistry	300	4	4	Chemistry	41	1	1
Chemistry	31	3	..	Chemistry	51	4	..
Chemistry	32	2	..	Chemistry	52	..	4
Chemistry	320	2	..	Nutrition	30	2	2
Chemistry	47	..	2	Nutrition	300	..	2
Chemistry	470	..	2	Physics	38	2	2
Mathematics	30	1	1				
Physics	33	4	..				
		18	18			15	21

Total — 72 units

CHEMISTRY

Soil and Plant Group

Third Year		Units 1st Term	Units 2nd Term			Units 1st Term	Units 2nd Term
Bacteriology	30	..	4	Agronomy	34	2	2
Botany	30	..	2	Agronomy	38	..	2
Botany	300	..	2	Bacteriology	32	4	..
Chemistry	30	2	2	Chemistry	33	4	..
Chemistry	300	4	4	Chemistry	39	3	3
Chemistry	31	3	..	Chemistry	40	3	3
Chemistry	32	2	..	Chemistry	41	1	1
Chemistry	320	2	..	Chemistry	48	..	2
Chemistry	42	..	2	Chemistry	480	..	2
Chemistry	420	..	1	Physics	36	2	..
Mathematics	30	1	1	Physics	38	2	2
Physics	33	4	..				
		18	18			21	17

Total — 74 units

ECONOMICS

Students electing Economics as a major subject will take their third year work at Macdonald College and their fourth year work in the Department of Economics and Political Science at McGill University. They must have attained a standing in the first two years equivalent to at least second class honours according to the standards of the Faculty of Arts and Science, and have their courses approved by the Chairmen of the departments concerned. This option fulfills the academic requirements for admission to the Faculty of Graduate Studies and Research for work leading to the degree of Master of Arts. As in other options, a minimum of 66 units is required.

Third Year (at Macdonald)		Units 1st Term	Units 2nd Term
Agronomy	4[illegible]	2	2
Agronomy	43(	1	1
Animal Husbandry or *Animal Husbandry	3(	3	..
	3[illegible]	..	3
Chemistry	5[illegible]	3	..
Economics	3[illegible]	..	3
Economics	3	..	3
Economics	3[illegible]	3	..
Economics	3[illegible]	3	..
Entomology or Plant Pathology	3[illegible]	4	..
	3	4	..
Extension Methods	3[illegible]	2	2
Horticulture or Horticulture	4[illegible]a	3	..
	40b	..	3
		35	

Fourth Year (at McGill)		Units 1st Term	Units 2nd Term
Economics	5	3	3
Economics	8	3	3
Economics	34	2	2
			16

5—Money and Banking
8—Statistics
34—Project—done under the direction of the Department of Agricultural Economics at Macdonald College.

Total — 51 units

*In 1947-48 only, will be 4 units, 1st term.

ENTOMOLOGY

Third Year		Units 1st Term	Units 2nd Term	Fourth Year		Units 1st Term	Units 2nd Term
Chemistry	32	2	..	Agronomy	34	2	2
Chemistry	320	2	..	Entomology	33	4	4
Entomology	30	4	4	Entomology	35	4	4
Entomology	32	..	2	Entomology	37	1	1
Entomology	37	1	1	Plant Pathology	31	4	..
Genetics	30	3	..				
Physics	33	4	..				
Zoology	32	2	..				
		18	7			15	11

Third or Fourth Year
(depending on session offered)

		Units 1st Term	Units 2nd Term
Entomology	36	..	2
Entomology	38	2	2
Zoology	31	4	4
Total — 65 Units		6	8

ENTOMOLOGY — PARASITOLOGY

Third Year		Units 1st Term	Units 2nd Term	Fourth Year		Units 1st Term	Units 2nd Term
Animal Pathology	30	..	3	Bacteriology	30	..	4
Chemistry	32	2	..	Entomology	35	4	4
Chemistry	320	2	..	Parasitology	34	1	1
Entomology	30	4	4	Parasitology	35	..	3
Entomology	32	..	2				
Parasitology	34	1	1				
Physics	33	4	..				
Zoology	32	2	..				
		15	10			5	12

Third or Fourth Year
(depending on session offered)

		Units 1st Term	Units 2nd Term
Parasitology	36	4	..
Parasitology	37	..	4
Parasitology	38	..	5
Zoology	31	4	4
Total — 64 units		8	14

GENERAL AGRICULTURE

Third Year		Units 1st Term	Units 2nd Term
Agricultural Engineering	33	4	..
Animal Husbandry	30	3	..
Bacteriology	30	..	4
Botany	30	..	2
Botany	300	..	2
Chemistry	32	2	..
Chemistry	42	..	2
Chemistry	420	..	1
Extension Methods	30	2	2
Genetics	30	3	..
Genetics	300	2	..
Physics	33a	2	..
Plant Pathology	31	4	..
		22	13

Fourth Year		Units 1st Term	Units 2nd Term
Agricultural Engineering	39	4	..
Agronomy	38	..	2
Agronomy	43	2	2
Agronomy	430	1	1
Animal Husbandry	34	..	3
Animal Pathology	30	..	3
Chemistry	33	4	..
Economics	30	..	3
Economics	32	3	..
Horticulture	40a	3	..
or			
Horticulture	40b	..	3
Physics	36	2	..
Poultry	33	3	..
Poultry	330	1	..
		20 or 23	14 or 17

Total — 72 units

GENERAL BIOLOGY

Botanical Group

Third Year		Units 1st Term	Units 2nd Term
Agronomy	34	2	2
Botany	30	..	2
Botany	300	..	2
Botany	31	..	3
Botany	32	2	..
Botany	34	2	..
Chemistry	32	2	..
Chemistry	320	2	..
Chemistry	48	..	2
Chemistry	480	..	2
Physics	33	4	..
Plant Pathology	31	4	..
		18	13

Fourth Year		Units 1st Term	Units 2nd Term
Bacteriology	30	..	4
Entomology	34	4	..
Genetics	30	3	..
Genetics	300	2	..
Plant Pathology	33	4	..
Plant Pathology	35	1	1
		14	5

Third or Fourth Year (depending on session offered)

		Units 1st Term	Units 2nd Term
Zoology	31	4	4

Total — 58 units

GENERAL BIOLOGY

Zoological Group

Third Year		Units 1st Term	Units 2nd Term
Botany	32	2	..
Botany	33	2	1
Chemistry	32	2	..
Chemistry	320	2	..
Chemistry	47	..	2
Chemistry	470	..	2
Entomology	30	4	4
Entomology	37	1	1
Physics	33	4	..
Zoology	32	2	..
		19	10

		Units 1st Term	Units 2nd Term
Animal Pathology	30	..	3
Bacteriology	30	..	4
Entomology	34	4	..
Entomology	37	1	1
Genetics	30	3	..
Genetics	300	2	..
Plant Pathology	31	4	..
		14	8

Third or Fourth Year
(depending on session offered)

		Units 1st Term	Units 2nd Term
Entomology	36	..	2
Zoology	31	4	4
		4	6

Total — 61 units

HORTICULTURE

Third Year		Units 1st Term	Units 2nd Term
Agronomy	34	2	2
Bacteriology	30	..	4
Botany	30	..	2
Botany	300	..	2
Botany	32	2	..
Chemistry	32	2	..
Chemistry	320	2	..
Chemistry	42	..	2
Chemistry	420	..	1
Horticulture	38	2	..
Horticulture	380	2	..
Horticulture	39	..	2
Horticulture	390	..	2
Physics	33	4	..
Plant Pathology	31	4	..
Total — 70 units		20	17

Fourth Year		Units 1st Term	Units 2nd Term
Botany	33	2	1
Chemistry	33	4	..
Entomology	34	4	..
Genetics	30	3	..
Genetics	300	2	..
*Horticulture	31	2	2
Horticulture	310	2	2
Horticulture	36	..	3
Horticulture	37	1	1
Horticulture	41	..	2
Physics	36	2	..
		22	11

PLANT PATHOLOGY

Third Year		Units 1st Term	Units 2nd Term
Bacteriology	30	..	4
Botany	30	..	2
Botany	300	..	2
Botany	31	..	3
Botany	32	2	..
Botany	34	2	..
Chemistry	32	2	..
Chemistry	320	2	..
Chemistry	48	..	2
Chemistry	480	..	2
Physics	33	4	..
Plant Pathology	30	..	2
Plant Pathology	32		4
Plant Pathology	33	4	..
Total — 68 units		16	21

Fourth Year		Units 1st Term	Units 2nd Term
Agricultural Engineering	32	..	2
Agronomy	34	2	2
Botany	33	2	1
Entomology	34	4	..
Genetics	30	3	..
Genetics	300	2	..
Horticulture	40b	..	3
Plant Pathology	35	1	1
Plant Pathology	36	4	4
		18	13

*Agricultural Engineering 34 and 39 may be substituted for Horticulture 31, with permission.

POULTRY HUSBANDRY

Third Year		Units 1st Term	Units 2nd Term
Animal Pathology	30	..	3
Bacteriology	30	..	4
Chemistry	32	2	..
Chemistry	320	2	..
Economics	30	..	3
Economics	32	3	..
Genetics	30	3	
Genetics	300	2	..
Physics	33	4	..
Poultry	33	3	..
Poultry	330	1	..
Poultry	37	..	..
		20	10

Fourth Year		Units 1st Term	Units 2nd Term
Agronomy	32	3	..
Agronomy	34	2	2
Animal Pathology	32	2	..
Animal Husbandry	38	..	2
or			
Chemistry	47	..	2
Chemistry	470	..	2
Economics	31	..	3
Poultry	35	2	2
Poultry	36	2	2
Poultry	37	4	4
		15	15 or 17

Third or Fourth Year
(depending on session offered)

		Units 1st Term	Units 2nd Term
Poultry	31	2	..
Poultry	34	..	3
Poultry	38	..	3

Total — 68 or 70 units

SUMMER WORK REQUIREMENTS

Students majoring in Agronomy will be required to spend one summer in the Agronomy Department at the College, or at some other approved college or experimental farm. This may be between the second and third, or third and fourth years. Arrangements will be made during this time to put the student in touch with each of the phases of the department's work.

Students majoring in Agricultural Engineering will be required to work for a summer in some phase of agricultural engineering work approved by the Agricultural Engineering Department.

Students majoring in Animal Husbandry will be required to work for a summer on a farm approved by the Animal Husbandry Department.

Students majoring in Horticulture will be required to work for a summer on a vegetable farm, a fruit farm, a nursery or in a greenhouse.

Students majoring in Entomology or Plant Pathology will be required to spend one summer in field or laboratory work, either at the College immediately under the direction of the department concerned, in one of the Government laboratories, or in some other place approved by the department concerned.

Students majoring in Poultry Husbandry will be required to work for a summer on a poultry farm approved by the Poultry Husbandry Department.

Summer Work for B.Sc. (Agr.) Students

A certain number of students who have completed at least one session in the B.Sc. (Agr.) course, may be employed during the spring and summer months to assist in the work of the various departments of the College. Such students will be paid according to the character and quantity of their work and, whilst in residence, will have to conform to the usual regulations. No other students may remain in residence without special permission from the Dean.

DESCRIPTION OF COURSES

DEPARTMENT OF AGRICULTURAL ENGINEERING

Associate Professor.....L. G. HEIMPEL
Assistant Professor.....J. H. COOPER
Lecturer.....A. C. MALLOCH

31. FARM BUILDINGS.—Requirements, design and construction of various farm buildings, insulation, heat loss, ventilation and sanitation. Prerequisite, Agr. Eng. 35A and 37.

2 lects., 2 labs., per week., 2nd term. Given in 1948-49. Professor Heimpel.
Text Book:—Foster and Carter—Farm Buildings.

32. SPRAYING AND DUSTING EQUIPMENT.—A laboratory study of high pressure pumps, dusting machines, spray guns and other equipment.

2 labs., per wk., 2nd term. Mr. Malloch.

33. FARM MACHINERY.—A study of tillage, harvesting and crop processing machinery. Field tests, dynamometer studies, hitches and eveners.

2 lects., 2 labs., per wk., 1st term. Mr. Malloch.
Text Book:—Smith—Farm Machinery and Equipment.

34. FARM POWER MACHINERY.—A study of internal combustion engines, tractors, and power transmission. Steam and its applications.

2 lects., 2 labs., per wk., 2nd term. Professor Cooper.
Text Book:—Jones—Farm Gas Engines and Tractors.

35. AGRICULTURAL DRAFTING.

A. The use of drawing instruments, projection, elementary architectural drawing. B. Perspective, architectural and machine drawing.

3 labs., per wk., 2 terms. Mr. Malloch.

36. PROJECTS.

Second term. Credit—one-half course. Professor Heimpel.

37. MECHANICS OF MATERIALS.—Resolution and composition of force systems; force polygons; centres of gravity; reactions and stresses in structures. Strength of materials.

2 lects., per wk., 2 terms. Professor Cooper.
Text Book:—Poorman—Applied Mechanics.

38. SHOPWORK.—Hand and power equipment in woodworking; structural joints and fastenings. Identification of iron and steel; forging; welding and tempering. Ropework and belting.

1 lect., 2 labs., per wk., 2 terms. Professor Cooper.

39. ENGINEERING FOR LAND DEVELOPMENT.—Part I. Methods of land surveying applicable to agriculture, including area surveys, levelling mapping and making of drainage profiles: land drainage. Part II. Engineering aspects of erosion control, irrigation and land clearing. Prerequisite, Part. I. Course value, 6 units. Non-specialists may elect Part I only if desired.

Part I, 2 lects., 1 lab., per wk., 1st term and 5 days of field work prior to opening date of session. Part II, 2 lects. per wk., 2nd term. Prof. Heimpel.

Text Book:—Ayres and Scoates—Land Drainage and Reclamation.

40. FARM ELECTRIFICATION.—Applied electricity, current distribution on the farm, wiring codes, motors and electric equipment for the farm.

2 lects., 1 lab., per wk., 2 terms. Professor Cooper.

AGRICULTURE

Offered jointly by the departments of Agricultural Engineering, Agronomy, Animal Husbandry, Economics, Horticulture and Poultry Husbandry.

10. AGRICULTURE.—An orientation course giving the student an opportunity to obtain a general view of agriculture, and some idea of the nature and problems of the various branches to each other and to the sciences.

1st Yr.:—2 lects., 1 lab., per wk., 2 terms.

20. AGRICULTURE —In continuation of Course 10.

2nd Yr.:—2 lects., 1 lab., per wk., 2 terms.

DEPARTMENT OF AGRONOMY

Professor ..... L. C. RAYMOND
Associate Professor ..... E. A. LODS
Assistant Professor ..... J. R. COWAN
Lecturer ..... A. A. HANSON

31. CEREAL CROPS.—An intensive study of cereal crops; production, marketing, uses, types, varieties, strains, commercial and seed grades.

2 lects., 2 labs., per wk., 2nd term. Professor Lods.

32. HAY AND PASTURE CROPS.—Similar to Cereal Crops,

2 lects., 1 lab., per wk., 1st term.

33. ROOTS, CORN AND OTHER SILAGE CROPS.—Similar to Cereal Crops.

2lects., 1 lab., per wk., 2nd term. Professor Raymond.

34. EXPERIMENTATION.—A study of factors involved, statistical methods, designs of experiments and interpretation of results.

2 labs., per wk., 2 terms.

35. PLANT BREEDING.—Problems, methods and the interpretation of results, in the breeding of field crops. Prerequisite:—Genetics 30, and Botany 33 or one Crops Course.

2 lects., 1 lab., per wk., 2nd term. Professor Cowan.

36. CROP ADAPTATION AND DISTRIBUTION.—Factors influencing crop adaptation and their effect on distribution. Agronomic organizations.

2 lects., 1 lab., per wk., 1st term. Professor Cowan.

38. SOIL MANAGEMENT.—An analysis of factors influencing soil productivity and their control. Prerequisite:—Chemistry 33 and Physics 36.

2 lects., per wk., 2nd term.

42. PROJECTS.—Directed study on an approved problem, either in the breeding or production phase.

2 labs., per wk., 2nd term. Professor Raymond and Staff.

43. FIELD CROP PRODUCTION.—Designed for students other than specialists in Agronomy. A study of field crops, their adaptation, weed control and seed production.

2 lects., per wk., 2 terms. Professor Lods.

430. Laboratory portion of Course 43.

1 lab., per wk., 2 terms.

DEPARTMENT OF ANIMAL HUSBANDRY

Professor ..... A. R. NESS
Associate Professor ..... LIONEL H. HAMILTON
Lecturer ..... J. E. MOXLEY
Instructor in Dairying ..... C. MORIN

30. SWINE PRODUCTION.—Care, feed, and management of swine. Special problems of bacon hog production. Swine experimentation and interpretation of results.

2 lects., 1 lab., per wk., 1st term. Professor Hamilton.

34. DAIRY CATTLE PRODUCTION.—The production of dairy cattle, with special reference to the problems of the dairy cattle industry; breeding, care and management of dairy cattle; and dairy cattle organizations.

2 lects., 1 lab., per wk., 2nd term. Professor Ness.

(2 lects., 2 labs., 1st term, in 1947-48.)

35. Livestock Judging and Management.—An introductory course dealing with the principles and practice of livestock judging.

3 labs., per wk., 2nd term. Professors Ness and Hamilton.

38. Animal Breeding.—Genetics in relation to breeding. Prerequisite:—Genetics 30.

2 lects., per wk., 2nd term. Professor Crampton.

41. Horses, Sheep and Beef Cattle.—A course covering the important features of the production of these classes of stock in Canada.

2 lects., 1 lab., per wk., 2nd term. Professor Hamilton.

42. Projects.

3 labs., per wk., 1st term. Professor Ness and staff.

43. Livestock Judging and Management.—An advanced course in livestock judging and management. This course includes visits to various farms, breeding establishments, and livestock shows.

3 labs., per wk., 1st term. Professors Ness and Hamilton.

DEPARTMENT OF ANIMAL PATHOLOGY

Associate Professor.....W. E. Swales

Lecturers.....W. B. Durrell, R. Connell

30. Elementary Physiology.

3 lects. per wk., 2nd term. Professor Swales.

31. Disease Prevention (A)—General principles of disease prevention, elementary immunology, sanitation and hygiene. Prerequisite:—Animal Pathology 30 and Bacteriology 30 or its equivalent.

3 lects. per wk., 1st term. The staff.

32. Poultry Diseases.—Autopsies, laboratory work and demonstrations. Prerequisite courses:—Zoology 31, Bacteriology 30.

2 labs. per wk., 1st term. The staff.

34. Disease Prevention (B)—Specific problems in the prevention of diseases of animals caused by bacteria, viruses, internal parasites, external parasites and nutritional deficiencies. Prerequisite:—Animal Pathology 31.

2 lects., 1 lab., per wk., 2nd term. The staff.

DEPARTMENT OF BACTERIOLOGY

Associate Professor.....P. H. H. Gray
Assistant Professor.....F. S. Thatcher

30. General Microbiology.—This course is a prerequisite to the courses listed below.

2 lects., 2 labs., per wk., 2nd term. Professor Gray.
Text Book:—Frobisher—Fundamentals of Bacteriology.

32. Soil Microbiology.
2 lects., 2 labs., per wk., 1st term. Professor Gray.

33. Laboratory Methods.
1 lect., 3 labs., per wk., 2nd term. Professor Thatcher.
Text Book:—Bryan and Bryan—Principles and Practice of Bacteriology.

34. Food Microbiology.
2 lects., 2 labs., per wk., 2nd term. Professor Thatcher.

35. Dairy Bacteriology.
2 lects., 2 labs., per wk., 2nd term. Professor Gray.

36. Projects.
3 labs. per wk., 2 terms. Staff.

37. Seminar.
1 hour per wk., 2 terms. Staff.

38. Physiology of Micro-organisms.
1 lect., 3 labs., per wk., 1st term. Professor Thatcher.

BOTANY

10. Introductory Botany.—A study of the flowering plant as a living organism with fundamentals of structure, physiology and reproduction, and an introduction to the general morphology of plants involving consideration of representative types of the several groups of the plant kingdom.
1 st Yr.:—2 lects., 2 labs., per wk., 2 terms.

30. Plant Physiology.
2 lects. per wk., 2nd term.

300. Laboratory portion of Course 30.
2 labs. per wk., 2nd term.

31. Histology and Cytology.—A detailed study of cells, cell division, tissues and their development, etc.
2 lects., 1 lab., per wk., 2nd term. Professor Ludwig.

32. Plant Morphology.

2 labs. per wk., 1st term.

33. Systematic Botany.

2 labs. per wk., 1st term, 1 lab. per wk., 2nd term.

34. Histological Technique.—The preparation for the microscope of permanent stained mounts of at least twelve separate items. See Plant Pathology 30.

2 labs. per wk., 1st term. Professor Ludwig.

DEPARTMENT OF CHEMISTRY

Professor . . . . . R. H. Common
Associate Professor . . . . . W. A. DeLong
Assistant Professor . . . . . R. A. Chapman
Sessional Lecturer . . . . . B. E. Baker

10. Inorganic Chemistry.

1st Yr.:—3 lects, 2 labs., per wk., 2 terms. Professor Chapman.

Text Book:—Timm—General Chemistry (McGraw-Hill).

20. Organic Chemistry.

2nd Yr.:—3 lects., 2 labs., per wk., 2 terms. Professor Chapman.

Text book:—Lowry and Harrow, Introduction to Organic Chemistry (Wiley).

30. Analytical Chemistry.

2 lects. per wk., 2 terms. 1st term, Qualitative. 2nd term, Quantitative. Professor DeLong.

300. Laboratory portion of Course 30.

4 labs. per wk., 2 terms.

301. Abridged laboratory portion of Course 30.

3 labs. per wk., 2 terms.

31. Organic Chemistry.—Preparations.

1 lect., 2 labs., per wk., 1st term. Dr. Baker.

Text book:—Robertson—Laboratory Practice of Organic Chemistry (Macmillan).

32. General Biochemistry.—Chemistry of the carbohydrates, lipides, amino-acids and proteins. Physico-chemical properties of proteins.

2 lects. per wk., 1st term.

Text books:—Harrow—Textbook of Biochemistry, 2nd edition (Saunders). Dutcher and Haley—Agricultural Biochemistry (Wiley).

320. Laboratory portion of Course 32.
2 labs. per wk., 1st term.

33. SOILS.—SOIL CHEMISTRY.—Joint course with Physics 36. Prerequisite:—Chemistry 42. Characteristics of the major soil groups; fundamental relations of the composition and properties of soil to soil fertility.
2 lects., 2 labs., per wk., 1st term. Professor DeLong.

Text book:—Robinson—Soils—their Origin, Constitution and Classification (Murby).

39. PHYSICAL CHEMISTRY.
1 lect., 2 labs., per wk., 2 terms. Dr. Baker.

Text book:—Daniels, Mathews and Williams—Experimental Physical Chemistry (McGraw-Hill).

40. ASSIGNED PROJECTS.
3 labs. per wk., 2 terms. Staff.

41. SEMINAR.
1 lect. per wk., 2 terms. Staff.

42. GEOLOGY:—Relation of geological phenomena to the origin and characteristics of soils. Laboratory work taken by soil specialists only.
2 lects. per wk., 2nd term. Professor DeLong.

420. Laboratory portion of Course 42.
1 lab. per wk., 2nd term.

47. PHYSIOLOGICAL CHEMISTRY.—Prerequisites:—Chemistry 32 and Physics 33. Classification and properties of enzymes; digestion; composition and properties of blood and bile, gaseous exchange and acid base equilibrium, metabolism of nutrients and tissue respiration, urine.

Laboratory work parallels the lecture course and includes blood and urine analysis.
2 lects. per wk., 2nd term.

Text books:—Bodansky—Introduction to Physiological Chemistry (Wiley); Hawk and Bergeim—Practical Physiological Chemistry (Blakiston).

470. Laboratory portion of Course 47.
2 labs. per wk., 2nd term.

48. PLANT BIOCHEMISTRY.—Prerequisites:—Chemistry 32 and Physics 33. Chemistry of plant nutrition with particular reference to the inorganic elements and inter-relations in the metabolism of inorganic and organic substances.
2 lects. per wk., 2nd term. Professor DeLong.

Text books:—Onslow—Principles of Plant Biochemistry (Cambridge Univ. Press); Dutcher and Haley—Agricultural Biochemistry (Wiley).

480. Laboratory portion of Course 48.
2 labs. per wk., 2nd term.

50. TEXTILE CHEMISTRY.—See page 3085.

51. FOOD CHEMISTRY.—Food laws; composition of foods; principles of food analysis, including the determination of vitamins; special considerations in regard to the composition and analysis of milk and its products
2 lects., 2 labs., per wk., 1st term.

52 ADVANCED FOOD ANALYSIS.—A specialized course including the determination of minor elements, amino acids and vitamins; control-analysis in food processing, e.g., meat packing, grain milling, dairy and fruit and vegetable dehydration industries.
2 lects., 2 labs. per wk., 2nd term.

53. SOIL GENESIS AND CLASSIFICATION.—Parts of courses Chemistry 33 and Chemistry 42, available only to students in the Economics option.
3 lects. per wk., 1st term. Professor DeLong.

DAIRYING

30. The Dairy Industry; its importance in Canadian agriculture, the relative importance of the various products, and an analysis of the trade. The farm dairy and its equipment. The composition, quality, value, care, and sale of milk and cream. Quality and defects in butter, cheese and other dairy products. Instruction in testing, separating, butter-making and cheesemaking.
2 lects., 2 labs., per wk., 1st term. Mr. Morin (Department of Animal Husbandry).

DEPARTMENT OF ECONOMICS

Professors.....{J. E. LATTIMER; G. L. BURTON; D. L. MACFARLANE}

20. ELEMENTARY PRINCIPLES.
2nd Yr.:—3 lects. per wk., 2nd term

30. PRINCIPLES OF MARKETING AND CO-OPERATION.—The problem of marketing. Services, agencies and methods. Possibilities of co-operation.
3 lects. per wk., 2nd term.

31. ECONOMICS OF AGRICULTURE.—Problems of the industry including trade, tariffs, transportation, planned production, land tenure, farm credit and taxation.
3 lects. per wk., 2nd term.

32. Farm Organization and Management.—Types of farming, size of business. Administration and efficiency. Records and accounts.
3 lects. per wk., 1st term.

33. Principles of Economic Theory.—A continuation of course 20 (prerequisite). Historical development of economic theory. Source and character of contribution. Recent refinements. Public regulation of business.
3 lects. per wk., 1st term.

34. Projects.
Minimum of 2 labs. per wk., 2 terms.

See note concerning graduate work on page 3072.

DEPARTMENT OF ENGLISH

Associate Professor.....J. M. Paton
Assistant Professor.....H. R. C. Avison

14. English Composition.—Instruction and practice in the elements of good speech and good writing: 1 lecture period per week, conference hours and written themes to the equivalent of 1 lab. period per week 2 terms. A student failing in the year's work will be required to repeat this course until the necessary standard has been attained.
1st Yr.:—1 lect., 1 lab., per wk., 2 terms. Professor Avison.

16. English Literature.—A study of the forms of literature—mainly poetry, fiction, drama,—with special attention to those factors which condition literary taste and judgment. A schedule of topics and readings will be available before the course begins.
1st Yr.:—2 lects. per wk., 2 terms. Professor Avison.

25. Modern Literature.—An extension of Course 16, with topics and readings drawn from the work of British, Canadian and American writers in the period from 1880 to the present. This course may be elected by third or fourth year students.
2nd Yr.:—1 lect. per wk., 1st term; 2 lect. per wk., 2nd term. Professor Paton.

26. Speaking and Writing.—An extension of Course 14 for students who require or desire further practice in oral and written expression. Laboratory periods may be substituted for lectures. This course may be elected by third or fourth year students.
2nd Yr.:—2 lects. per wk., 1st term; 1 lect. per wk., 2nd term. Professors Avison and Paton.

All second year degree course students must take either English 25 or English 26. The prerequisite to these courses is successful completion of senior matriculation English Literature and Composition, or English 14 and 16 at Macdonald College.

30. The Literature of Utopia.—A reading and discussion course on problems of human and social betterment as reflected in our literature. A schedule of topics and readings will be provided at the opening of the course, which will be conducted by lecture and seminar. Not given for fewer than 5 students.

1 lect. per wk., 1st term; 2 lects. per wk., 2nd term. Professor Paton.

31. The Literature of Rural Life.—A study of Canadian and American regional literature. The schedule of topics and readings, covering the period from pioneer settlements to the present day, will emphasize the large place in our literature held by prose and poetry which is inspired by the land and the people who live on the land. Not given for fewer than 5 students.

1 lect. per wk., 1st term; 2 lects. per wk., 2nd term. Professor Avison.

EXTENSION METHODS

30. Extension Methods.—Study group technique; extension methods in agriculture, household science; rural sociology.

Laboratory work will comprise participation in debates, conduct of public meetings and similar activities, and the operation of the Rural Problems Club, which will meet weekly from November 1st to March 31st. Membership in the Club will be open to all students in Agriculture, Household Science and the School for Teachers. Students who elect this course will also be required to take English 26, unless this course was taken in the second year.

1 lect., 1 lab., per wk., 2 terms. Professor Avison and Committee.

DEPARTMENT OF ENTOMOLOGY

Professor.....W. H. Brittain
Associate Professor.....E. Melville DuPorte
Assistant Professor.....F. O. Morrison
Lecturer.....W. E. Whitehead

30. Insect Morphology.

2 lects., 2 labs., per wk., 2 terms. Professor DuPorte.

32. Entomological Technique.—Prerequisite:—Zoology 32.

2 labs. per wk., 2nd term. Mr. Whitehead.

33. Economic Entomology.—The principles and practice of Applied Entomology from a professional standpoint, including a survey of the Class *Hexapoda* with special reference to biological and economic aspects. A representative collection of economic insects including at least 50 adults. 20 larvae and five complete life history sets will be required of all students taking this course.

2 lects., 2 labs., per wk., 2 terms. Professors Brittain and Morrison.

34. General and Economic Entomology.—A more elementary course similar to the foregoing, but suited to the general student. A collection of 25 adult insects, 10 larvae and one complete life history set, representative of common economic insects, will be required of each student taking the course.

2 lects., 2 labs., per wk., 1st term. Professors Brittain and Morrison.

35. Systematic Entomology.—The classification of the principal groups of insects. *Each student will bring to the class at least 50 insects which he has collected, mounted and labelled according to the instructions given in Course 32. In addition, specialists in Entomology will choose a special group for more detailed study and bring to the class an original collection in that group.* Prerequisite:—Entomology 30.

2 lects., 2 labs., per wk., 2 terms. Mr. Whitehead.

36. Insect Ecology.—The influence of the environment on the development, activities, distribution and abundance of insects.

2 lects. per wk., 2nd term. Given in 1947-48. Professor DuPorte.

37. Seminar.—Presentation and discussion of reports on:—(1) Assigned topics; (2) Recent work in Entomology and Zoology; (3) Original investigation.

1 lab. per wk., 2 terms. Professors Brittain and DuPorte.

38. Projects.—One or more problems entailing private investigation will be allotted to each student at the beginning of his third year. The work done should be equivalent to

2 labs. per wk., 2 terms. Staff.

39. Economic Entomology.—A laboratory course supplemental to Course 33, open only to students who are majoring in Entomology and have received the permission of the department.

1 lab. per wk., 2 terms. Professor Brittain.

GENETICS

30. Elementary Genetics.—The modern conception of inheritance, applicable to both plants and animals, with some reference to human inheritance.

3 lects. per wk., 1st term. Professor Raymond (Department of Agronomy).

300. Laboratory portion of Course 30. Practical illustrations from the fruit fly, *Drosophila melanogaster* and from corn.

2 labs. per wk., 1st term.

DEPARTMENT OF HORTICULTURE

Associate Professor ..... H. R. MURRAY

Lecturer ..... A. N. NUSSEY

31. VEGETABLE CROPS.—The principles of vegetable growing including economic importance, geography, types and varieties, cultural requirements, harvesting, grading, marketing and storage as applied to the important crop plants.

2 lects. per wk., 2 terms, and 4 days prior to the opening date of the College session for the examination of material in the fields. Professor Murray.

310. Laboratory portion of Course 31.

2 labs. per wk., 2 terms.

32. LANDSCAPE ARCHITECTURE.—History and development of landscape gardening. Description, characteristics, and identification of ornamental plants, propagation, nursery practices, and care of plant material; landscape plans, sketches, designs, drafting and specifications, as applied to rural and urban homes, estates, parks, playgrounds, etc.

2 lects., 2 labs., per wk., 2nd term.

35. FLORICULTURE.—History, development, varieties, propagation and culture of flowers, with consideration of harvesting, grading, packing, storage and marketing. Decoration, floral designs, arrangment of baskets, bouquets and designs, table and house decoration. Trips to greenhouse establishments.

2 lects., 2 labs., per wk., 2nd term.

36. PLANT BREEDING.—A study of the principles of genetics as applied to the breeding and improvement of horticultural crop plants. The development of breeding methods for different types of plants will be given special consideration. Lectures will be supplemented by practice periods in the greenhouse. Prerequisite:—Genetics 30 and permission to register.

2 lects., 1 lab., per wk., 2nd term. Professor Murray.

37. SEMINAR.—Presentation and discussion of reports on assigned topics, recent work and developments in horticulture and reports on the original investigations of the students and staff.

1 period per wk., 2 terms. Professor Murray and Staff.

38. POMOLOGY (ORCHARD FRUITS).—The fundamentals of orchard fruit propagation, production and marketing, with visits to orchards, markets, and cold storage establishments.

2 lects. per wk., 1st term and 4 days prior to the opening date of the College session for the examination of material in the orchards. Mr. Nussey.

380. Laboratory portion of Course 38.
2 labs. per wk., 1st term.

39. POMOLOGY (SMALL FRUITS).—The fundamentals of small fruit propagation, production and marketing, with visits to producing areas and marketing establishments.
2 lects. per wk., 2nd term. Mr. Nussey.

390. Laboratory portion of Course 39.
2 labs per wk., 2nd term.

40. HORTICULTURAL CROPS.—A course dealing with the more important branches of horticulture, designed for students other than horticulture specialists.

a. A study of tree and bush fruits with attention to improving the home surroundings.

b. A study of potatoes as a cash crop, canning and other special crops and the farm garden.

Under special conditions either A or B may be taken by permission.
2 lects., 1 lab., per wk., 2 terms. Professor Murray, and Mr. Nussey.

41. PROJECTS.
2 labs. per wk., 2nd term.

MATHEMATICS

10. ELEMENTARY MATHEMATICAL ANALYSIS.—An introduction to functions and their graphical representation; solution of equations; logarithms; trigonometry; binomial theorem; compound interest; permutations, combinations and probability.
1st Yr.:—3 lects. per wk., 2 terms. Professor Steeves (School for Teachers).

20. CALCULUS.—Analytical geometry, differential and integral calculus.
2nd Yr.:—3 lects. per wk., 2 terms. Professor Rowles (Department of Physics).

30. ELEMENTARY DIFFERENTIAL EQUATIONS.—An introduction to differential equations with selected applications in physical, chemical and biological science.
1 lect. per wk., 2 terms. Professor Oliver (Department of Physics).

DEPARTMENT OF NUTRITION

Professor.....E. W. CRAMPTON
Lecturer.....G. C. ASHTON

30. FUNDAMENTALS OF NUTRITION.—The nutritionally important components of foods and their physiological functions. Measurement of the nutritive values of foods. Determination of the nutritive requirements of the body for maintenance; and for growth, reproduction and lactation.
2 lects. per wk., 2 terms. Professor Crampton.

300. NUTRITION LABORATORY.—Methods of nutrition experimentation including actual carrying out of comparative feeding trials, digestion experiments, nitrogen balances; determination of physiological fuel values; vitamin bioassays; basal metabolism studies. Elementary statistical analysis and interpretation of the data from these experiments and the preparation of technical reports for submission.
2 labs. per wk., 2nd term. Professor Crampton and Mr. Ashton.

32. ANIMAL FEEDSTUFFS.—The classification of feeds and a study of their nutritionally significant characteristics.
2 lects. per wk., 2nd term. Professor Crampton.

PARASITOLOGY

34. SEMINAR.
1 lab. per wk., 2 terms. Professors DuPorte and Cameron

Students will attend the combined Entomology-Parasitology Seminar.

35. PROJECTS.—A problem may be selected in Protozoology, Medical Entomology or Helminthology. The object of the problem is to enable the student:—(1) To do more intensive work in some selected field; (2) To obtain an introduction to the methods of scientific research.
3 labs. per wk., 2nd term. Professors Cameron and DuPorte.

36. PROTOZOOLOGY.—A morphological, biological and systematic study of protozoa with special reference to the parasites of domestic animals. Protozoological technique.
2 lects., 2 labs., per wk., 1st term. Given in 1948-49. Professor DuPorte (Department of Entomology).

37. MEDICAL ENTOMOLOGY.—A systematic and biological study of insects concerned in the causation of disease in man and domestic animals. Prerequisite:—Entomology 30.
2 lects., 2 labs., per wk., 2nd term. Given in 1948-49. Professor DuPorte (Department of Entomology).

38. HELMINTHOLOGY.—A morphological, biological and systematic study of the helminths with special reference to the parasites of domestic animals. Helminthological technique.
2 lects., 4 labs., per wk., 2nd term. Given in 1947-48. Professor Cameron (Institute of Parasitology).

DEPARTMENT OF PHYSICS

Associate Professor ..... W. ROWLES
Assistant Professor ..... W. F. OLIVER
Lecturer ..... C. A. HERALD

12. GENERAL PHYSICS.—An elementary course dealing with the subject chiefly from the experimental side, with selected problems based

on the fundamental principles. The course is designed to familiarize the students with the more important laws of physics and to furnish the necessary basis for later work.
1st Yr.:—3 lects., 1 lab., per wk., 2 terms. Professor Rowles.

22 GENERAL PHYSICS.—A continuation course which covers the same ground as Physics 12, but with more intensive treatment. Certain topics will receive special emphasis and additional phases of the subject will be considered.
2nd Yr.:—3 lects., 1 lab., per wk., 2 terms. Professor Oliver.

32. METEOROLOGY.—A study of the factors which condition climate and weather, etc.
1 lect. per wk., 2nd term. Professor Rowles.

33. BIOPHYSICS.—(Prerequisite to Chemistry 47 and 48). A study of the gas laws; osmosis; surface phenomena; electrolytic dissociation; pH; colloidal state; X-rays in biology, etc.
2 lects., 2 labs., per wk., 1st term. Professor Rowles.

33a. BIOPHYSICS.—An abridged course open to students in the General Agriculture or Economics options only.
1 lect., 1 lab., per wk., 1st term. Professor Rowles.

36. SOILS—SOIL PHYSICS.—A joint course with Chemistry 33. Soil texture as determined by mechanical analysis; soil moisture and its movement; soil constants and their measurement; physical properties of colloids and their effects on soil behaviour; dynamometer studies in relation to physical properties of soil, etc.
1 lect., 1 lab., per wk., 1st term. Professor Rowles.

38. MOLECULAR AND ATOMIC PHYSICS.—A discussion of kinetic theory including Maxwell's distribution law; the laws of thermodynamics; atomic structure; charge on the electron; isotopes; circular orbit theory for hydrogen; vacuum tubes; X-rays and crystal structure; radioactivity, etc. A portion of the time is devoted to laboratory work.
2 lects. per wk., 2 terms. Professor Oliver.

DEPARTMENT OF PLANT PATHOLOGY

Associate Professor.....JOHN G. COULSON
Assistant Professors.....R. A. LUDWIG, E. O. CALLEN
Sessional Assistant.....C. S. GUNDESEN

30. TECHNIQUE.—The preparation and standardization of media. Inoculation methods, etc. Photomicrography and the optical equipment necessary.

Students taking the Plant Pathology Option will be required to take that part of course Zoology 32 dealing with illustrations. Graduate students may take this work without credit.
2 labs. per wk., 2nd term. Professor Ludwig.

31. Diseases of Plants.—A study of the common diseases and their control. Use of spray calendars. Preparation of fungicides, etc.
2 lects., 2 labs., per wk., 1st term. Professor Coulson.

32. Plant Pathology.—Detailed studies of plant diseases; distribution, economic importance, symptoms, cause and control.

Myxomycetous, phycomycetous, ascomycetous and non-parasitic diseases.
2 lects., 2 labs., per wk., 2nd term. Professor Coulson.

33. Mycology.—A study of fungi as concerning taxonomy, morphology, sexuality, etc.
2 lects., 2 labs., per wk., 1st term. Professor Ludwig.

34. Projects.—One or more problems entailing private investigation will be allotted each student.
Minimum of 2 labs. per wk., 2 terms.

35. Seminar.—A course entailing reading, discussion, appreciation and criticism of research articles, monographs, etc., in the field of General Botany, Physiology, Cytology, Histology, Morphology, Ecology, Taxonomy, Genetics, Mycology, Pathology. Attention will be more especially directed to such articles as have application in Plant Pathology or Mycology.
1 period per wk., 2 terms. Staff.

36. Plant Pathology.—Detailed studies of plant diseases; distribution, economic importance, symptoms, cause and control.

Basidiomycetous, fungi imperfecti, bacterial and virus diseases.
2 lects., 2 labs., per wk., 2 terms. Professors Ludwig and Coulson.

DEPARTMENT OF POULTRY HUSBANDRY

Associate Professor.....W. A. Maw
Assistant Professor.....N. Nikolaiczuk

31. History of Breeds and Judging.—The origin, domestication and development of the various breeds of chickens, turkeys, ducks and geese. Advanced practice in judging on the basis of type and colour standards.
2 labs. per wk., 1st term. Given in 1947-48. Professor Maw.

33. General Poultry Husbandry.—The general principles and practice of poultry production and marketing.
3 lects. per wk., 1st term. Professor Nikolaiczuk.

330. Laboratory portion of Course 33.
1 lab. per wk., 1st term.

34. Breeding Principles.—The fundamental principles underlying poultry breeding. Prerequisites:—Genetics 30; Poultry Husbandry 31 and 33.
2 lects., 1 lab., per wk., 2nd term. Given in 1947-48. Professor Maw.

35. Poultry Farm Management.—Poultry farming as a business; size of business, economic aspects of capital and labour involved; farm layout and buildings; arrangement; equipment, inventories, cost accounts and other records. Prerequisite:—Poultry Husbandry 33.
1 lect., 1 lab., 2 terms. Professor Maw.

36. Research.—A study of method in conducting experiments and analysis of data. Prerequisite:—Poultry Husbandry 33.
2 labs. per wk., 2 terms. Professor Nikolaiczuk.

37. Assigned Projects.
3rd Yr.:—2 labs. per wk., 2nd term.
4th Yr.:—3 labs. per wk., 2 terms. Professors Maw and Nikolaiczuk.

38. Poultry Nutrition.—Prerequisite:—Poultry Husbandry 33.
2 lects., 1 lab., per wk., 2nd term. Given in 1947-48. Professor Nikolaiczuk.

SOCIOLOGY

40. Modern Communities.—A study of typical modern communities in rural and urban areas; the relations of rural and urban communities as indicated by the spread of urbanization; present-day trends in the social and economic organization of rural and urban communities; present-day community problems. Elective.
3 lects. per wk., 1st term. Given in 1947-48. Hours to be arranged. Professor Dawson (Faculty of Arts and Science) and Mrs. Sim.

41. The Modern Family.—The social and economic backgrounds of the modern family; the varied marriage systems in different parts of the world; modern trends in family standards of living; forces making for social change and readjustment of the family in North America; factors making for future family stability. Elective.
3 lects. per wk., 1st term. Given in 1948-49. Hours to be arranged. Professor Dawson and Mrs. Sim.

ZOOLOGY

20. General Zoology.—An introduction to animal structure, physiology and classification. Representatives of the chief phyla are studied and used to introduce some of the general principles of Zoology.
2nd Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor DuPorte, Professor Morrison and Mr. Whitehead (Department of Entomology).

31. Comparative Vertebrate Anatomy.
2 lects., 2 labs., per wk., 2 terms. Given in 1947-48. Professor DuPorte and Mr. Whitehead (Department of Entomology).

32. Histological Technique.—The preparation of histological slides and the technique of making scientific drawings.

Students taking the Entomology Option will be required to take that part of the course Plant Pathology 30 which deals with photography and the use of the microscope. Graduate students may take this work without credit.

2 labs. per wk., 1st term. Mr. Whitehead (Department of Entomology).

EXAMINATIONS

B.Sc. (Agr.) AND B.Sc. (H.Ec.) COURSES

All students will be required to give satisfactory evidence of mastery of the material of lecture and laboratory. First and second year examinations will be held at the end of the first term in all courses. In all years examinations will be held at the conclusion of each course, at which time the examiner will pass in to the Registrar a mark giving the final standing of each student in all the work of the course.

First year students who obtain an average of less than 40 per cent in the first term examinations will not be permitted to continue with the work of the second term.

Examination in any subject may be refused because of absence without accepted excuse from one or more classes in the subject. See page 3018.

Students who are allowed to repeat a year do so on probation. Students whose work or conduct during the year proves unsatisfactory may also be placed on probation involving loss of certain privileges. The type of probation will vary with individual cases.

Pass Mark and Classes

The pass mark in all examinations is 50 per cent.

In the first and second years, 80 per cent and over is first class standing; 65 to 79 per cent, second class; 50 to 64 per cent, third class or pass.

Advancement from Year to Year

In the first and second years, any student who fails in courses of the year's work to an aggregate value of more than 450 marks will be required to repeat the year. Any student who fails in courses of the year's work to an aggregate value of 450 marks or less may write supplemental examinations in all failed courses the following September. However, a student who fails in English 14 (Composition) will be required to repeat the course until the necessary standard has been attained.

No student may enter the second year carrying a condition in more than one subject of first year work, and no student may enter the third year carrying a condition in more than one subject of second year work.

No student may enter the third year with any subject outstanding from his first year, and no student may enter the fourth year with any subject outstanding from his second year.

Any student who, after the final spring examinations of the third year, has failed to obtain an average of at least 50 per cent based on all the courses of his third year, will be required to repeat the year. No student will be admitted to the fourth year of the B.Sc. (Agr.) course who has not passed in third year work equivalent to at least five full courses (30 units), or to the fourth year of the B.Sc. (H.Ec.) courses who has not passed in third year courses having an aggregate value of at least 750 marks.

A student who is allowed to repeat a year may be exempted from attending lectures and passing examinations in one or more subjects in which he has already passed and obtained at least 60 per cent, and may be required to take one or more subjects of the following year in his course. The choice of subjects must involve no conflict of hours in the timetable.

If a student fails in a course which he has taken with a more advanced class he must repeat the course when he enters the class in which that subject is regularly taught.

Pass and Honour Standing

Honour Standing:—Students who have obtained an average of at least 60 per cent in the work of the first two years, and who obtain an average of 80 per cent or over, based on all the courses of their third and fourth years, shall be granted First Class Honours; those who obtain an average of from 65 to 79 per cent, based on all the courses of their third and fourth years, shall be granted Second Class Honours. Students who have obtained an average of less than 60 per cent in the work of the first two years are not eligible for Honours.

Pass Standing:—Students who obtain an average of not less than 50 per cent, based on all the courses of their third and fourth years, shall be granted Pass Standing.

Supplemental Examinations

Regular supplemental examinations are held in September before the beginning of the session, and at the time of the regular examinations in January and April. Failure to pass a supplemental examination means that the course must be repeated. In the case of fourth year students only, special examinations may be provided earlier in September, so that the results may be known in time to recommend successful candidates for the fall Convocation.

Except in very exceptional cases, each of which must be submitted to the Faculty for approval, only one supplemental examination will be allowed in any course; but a student who has been prevented by illness or some other unavoidable circumstance from writing a supplemental examination at the regular time will be allowed to write a special supplemental examination at a later date. In no other cases than those mentioned will special supplemental examinations be granted.

Every candidate for a supplemental examination is required to fill out an application form for such examination and to return it with the necessary fee (for which see page 3022) at least three weeks before the date set for the examinations. Application forms may be obtained from the Registrar.

No student writing a supplemental examination in a subject will be granted marks higher than the pass mark, 50 per cent.

(e) GRADUATE COURSES

Graduate work, under the Faculty of Graduate Studies and Research, McGill University, Montreal, may be taken at Macdonald College, in Agronomy, Bacteriology, Chemistry, Entomology, Horticulture, Nutrition, (Animal, Poultry, Human), Parasitology, and Plant Pathology. The advanced courses of study offered lead to the degrees of Master of Science and Doctor of Philosophy.

Graduates who have completed three full courses or their equivalent in the Department of Economics at Macdonald College and who, in addition, have completed at least two full courses in the Department of Economics and Political Science or their equivalent with at least second class honours, may register in the Faculty of Graduate Studies and Research to proceed toward the degree of Master of Arts.

A number of scholarships and students assistantships are available.

The Faculty of Graduate Studies and Research issues an announcement giving full information regarding graduate courses, and scholarships, theses, registration, etc., in connection therewith, which will be sent on application to the Registrar, to the Dean of the Faculty of Graduate Studies and Research, McGill University, Montreal, or to the Dean of the Faculty of Agriculture, Macdonald College, Que.

SYLLABUS

Diploma Course

SUBJECTS	Course Numbers	First Term per week		Second Term per week	
		Lects.	Labs.	Lects.	Labs.
FIRST YEAR					
Agricultural Engineering:—					
Farm Machinery	1	1	3		
Farm Construction	2			1	2
Agriculture	1	1		1	
Agronomy:—					
Soils and Soil Management	1	3			
Hay and Pasture Crops	3			2	1
Corn and Root Crops	5			3	
Animal Husbandry:—					
Farm Live Stock	1	3	2	2	2
Bacteriology	1			1	1
Botany	1	2	1		
Chemistry	1	2	1		
English	2	3		3	
Entomology	3			2	1
Horticulture:—					
General Horticulture	4	1	1	1	1
Mathematics	1	1	1	1	1
Poultry Husbandry:—					
Productive Poultry Husbandry	1	2	1	2	1
SECOND YEAR Dairy Farming Group					
Agricultural Engineering:—					
Land Drainage and Farm Sanitation	6	2	2		
Farm Shopwork	7			1	2
Agronomy:—					
Crop Management	7			2	1
Grain Crops	9	2	1		
Animal Husbandry:—					
Farm Live Stock	6	2	2	2	2
Live Stock Breeding	7			2	
Animal Nursing	6			2	1
Dairying	6			2	2
Economics:—					
Principles of Marketing	7	3	1		
Farm Organization and Management	8			2	1
English	7	1	1	1	1
Mathematics	6	2			
Nutrition:—					
Feeds and Feeding	6	2			
Physics	6	1	2		
Poultry Husbandry:—					
Poultry Problems, Advanced	6			2	1
*General Poultry Husbandry	7	2	1		
Project	6	2		2	
SECOND YEAR Fruit Farming Group					
Agricultural Engineering:—					
Land Drainage and Farm Sanitation	6	2	2		
Farm Shopwork	7			1	2
Agronomy:—					
Crop Management (Elective)	7			2	1
Economics:—					
Principles of Marketing	7	3	1		
Farm Organization and Management	8			2	1
English	7	1	1	1	1
Horticulture:—					
Vegetable Gardening	6	2	2	2	2
Ornamental Gardening	7	2	1		
Fruit Growing	8	2	2	3	2
Mathematics	6	2			
Physics	6	1	2		
Plant Pathology:—					
Plant Diseases	6			2	1
Poultry Husbandry:—					
Poultry Problems, Advanced	6			2	1
*General Poultry Husbandry	7	2	1		
Project	6	2		2	

*An elective course which may be substituted for one of the above courses, with the approval of the Diploma Course Committee.

SYLLABUS

B.Sc. (Agr.) and B.Sc. (H.Ec.) Courses

First and Second Years

SUBJECTS	Course Number	First Term per week		Second Term per week	
		Lects.	Labs.	Lects.	Labs.
FIRST YEAR					
Agriculture:—					
*Agriculture	10	2	1	2	1
Botany:—					
**Botany, Introductory	10	2	2	2	2
Chemistry:—					
Chemistry, Inorganic	10	3	2	3	2
English:—					
Composition	14	1	1	1	1
Literature	16	2	.....	2	.....
Household Science:—					
+Household Science, Introduction to	10	3	.....	.....	.....
Mathematics:—					
Mathematical Analysis, Elementary	10	3	.....	3	.....
Physics:—					
General Physics	12	3	1	3	1
Physical Education:—					
+Physical Education	10	Minimum 2 hours weekly.			
Textiles:—					
+Laundering	10	.....	.....	2	1
SECOND YEAR					
Agriculture:—					
*Agriculture	20	2	1	2	1
Art:—					
+Interior Decoration and Art Appreciation	20	1	1	1	1
+Costume	21	2 lect., per wk., either term.			
Chemistry:—					
Organic Chemistry	20	3	2	3	2
Economics:—					
*Elementary Principles	20	.....	.....	3	.....
English:—					
†Modern Literature	25	1	.....	2	.....
or					
†Speaking and Writing	26	2	.....	1	.....
Foods and Cookery:—					
+Basic Cookery	26	2	3	2	3
Household Science:—					
+Household Administration	20	.....	.....	3	1
Mathematics:—					
*Calculus	20	3	.....	3	.....
Physics:—					
*General Physics	22	3	1	3	1
Zoology:—					
Zoology, General	20	2	2	2	2

*B.Sc. (Agr.) only. +B.Sc. (H.Ec.) only.

**B.Sc. (H.Ec.) in lieu of Botany 10, first year French or German will be accepted from students from other Universities.

†Second year students must take either English 25 or English 26.

SYLLABUS

B.Sc. (Agr.) Course

Third and Fourth Years

SUBJECTS	Course Nos.	Unit Value	Periods per week		Term Given	Session offered (if alternating)
			Lects.	Labs.		
Agricultural Engineering:						
Farm Buildings	31	4	2	2	Second	1948-49
Spraying and Dusting Equipment	32	2	..	2	Second	
Farm Machinery	33	4	2	2	First	
Farm Power Machinery	34	4	2	2	Second	
Agricultural Drafting	35	6	..	3	Both	
Projects	36	3	..	3	Second	
Mechanics of Materials	37	4	2	..	Both	
Shopwork	38	6	1	2	Both	
Engineering for Land Development	39	4	2	1	First	
		2	2	..	Second	
Farm Electrification	40	6	2	1	Both	
Agronomy:						
Cereal Crops	31	4	2	2	Second	
Hay and Pasture Crops	32	3	2	1	First	
Roots, Corn and other Silage Crops	33	3	2	1	Second	
Experimentation	34	4	..	2	Both	
Plant Breeding	35	3	2	1	Second	
Crop Adaptation and Distribution	36	3	2	1	First	
Soil Management	38	2	2	..	Second	
Projects	42	2	..	2	Second	
Field Crop Production	43	4	2	..	Both	
Laboratory work of Course 43	430	2	..	1	Both	
Animal Husbandry:						
Swine Production	30	3	2	1	First	
*Dairy Cattle Production	34	3	2	1	Second	
Livestock Judging and Management	35	3	..	3	Second	
Animal Breeding	38	2	2	..	Second	
Horses, Sheep and Beef Cattle	41	3	2	1	Second	
Projects	42	3	..	3	First	
Livestock Judging and Management	43	3	..	3	First	
Animal Pathology:						
Elementary Physiology	30	3	3	..	Second	
Disease Prevention A	31	3	3	..	First	
Poultry Diseases	32	2	..	2	First	
Disease Prevention B	34	3	2	1	Second	
Bacteriology:						
General Microbiology	30	4	2	2	Second	
Soil Microbiology	32	4	2	2	First	
Laboratory Methods	33	4	1	3	Second	
Food Microbiology	34	4	2	2	Second	
Dairy Bacteriology	35	4	2	2	Second	
Projects	36	6	..	3	Both	
Seminar	37	2	1	..	Both	
Physiology of Microorganisms	38	4	1	3	First	

* In 1947-48 only, will be 4 units, 1st term.

SYLLABUS

B.Sc. (Agr.) Course

Third and Fourth Years (*Continued*)

SUBJECTS	Course Nos.	Unit Value	Periods per week		Term Given	Session offered (if alternating)
			Lects.	Labs.		
Botany:						
Plant Physiology	30	2	2	..	Second	
Laboratory work of Course 30	300	2	..	2	Second	
Histology and Cytology	31	3	2	1	Second	
Plant Morphology	32	2	..	2	First	
Systematic Botany	33	3	..	2	First	
		..	..	1	Second	
Technique	34	2	..	2	First	
Chemistry:						
Analytical Chemistry	30	4	2	..	Both	
Laboratory work of Course 30	300	8	..	4	Both	
Course 300 abridged	301	6	..	3	Both	
Organic Preparations	31	3	1	2	First	
Biochemistry	32	2	2	..	First	
Laboratory work of Course 32	320	2	..	2	First	
Soil Chemistry	33	4	2	2	First	
Physical Chemistry	39	6	1	2	Both	
Projects	40	6	..	3	Both	
Seminar	41	2	1	..	Both	
Geology	42	2	2	..	Second	
Laboratory work of Course 42	420	1	..	1	Second	
Physiological Chemistry	47	2	2	..	Second	
Laboratory work of Course 47	470	2	..	2	Second	
Plant Biochemistry	48	2	2	..	Second	
Laboratory work of Course 48	480	2	..	2	Second	
Food Chemistry	51	4	2	2	First	
Advanced Food Analysis	52	4	2	2	Second	
Soil Genesis and Classification	53	3	3	..	First	
Dairying	30	4	2	2	First	
Economics:						
Principles of Marketing and Co-operation	30	3	3	..	Second	
Economics of Agriculture	31	3	3	..	Second	
Farm Organization and Management	32	3	3	..	First	
Principles of Economic Theory	33	3	3	..	First	
Projects	34	4	..	2	Both	
English:						
Literature of Utopia	30	3	1	..	First	
		..	2	..	Second	
Literature of Rural Life	31	3	1	..	First	
		..	2	..	Second	
Extension Methods	30	4	1	1	Both	
Entomology:						
Insect Morphology	30	8	2	2	Both	
Technique	32	2	..	2	Second	
Economic Entomology	33	8	2	2	Both	
General Entomology	34	4	2	2	First	
Systematic Entomology	35	8	2	2	Both	
Insect Ecology	36	2	2	..	Second	1947-48
Seminar (3rd year)	37	2	..	1	Both	
Seminar (4th year)	37	2	..	1	Both	
Projects	38	4	..	2	Both	
Economic Entomology	39	2	..	1	Both	

SYLLABUS

B.Sc. (Agr.) Course

Third and Fourth Years (*Continued*)

SUBJECTS	Course Nos.	Unit Value	Periods per week		Term Given	Session offered (if alternating)
			Lects.	Labs.		
Genetics:						
Elementary Genetics	30	3	3	..	First	
Laboratory work of Course 30	300	2	..	2	First	
Horticulture:						
Vegetable Crops	31	4	2	..	Both	
Laboratory work of Course 31	310	4	..	2	Both	
Landscape Architecture	32	4	2	2	Second	
Floriculture	35	4	2	2	Second	
Plant Breeding	36	3	2	1	Second	
Seminar	37	2	..	1	Both	
Pomology (Orchard Fruits)	38	2	2	..	First	
Laboratory work of Course 38	380	2	..	2	First	
Pomology (Small Fruits)	39	2	2	..	Second	
Laboratory work of Course 39	390	2	..	2	Second	
Horticultural Crops	40a	3	2	1	First	
Horticultural Crops	40b	3	2	1	Second	
Projects	41	2	..	2	Second	
Mathematics:						
Elementary Differential Equations	30	2	1	..	Both	
Nutrition:						
Fundamentals of Nutrition	30	4	2	..	Both	
Laboratory work of Course 30	300	2	..	2	Second	
Animal Feedstuffs	32	2	2	..	Second	
Parasitology:						
Seminar	34	2	..	1	Both	
Projects	35	3	..	3	Second	
Protozoology	36	4	2	2	First	1948-49
Medical Entomology	37	4	2	2	Second	1948-49
Helminthology	38	6	2	4	Second	1947-48
Physics:						
Meteorology	32	1	1	..	Second	
Biophysics	33	4	2	2	First	
Biophysics	33a	2	1	1	First	
Soil Physics	36	2	1	1	First	
Molecular and Atomic Physics	38	4	2	..	Both	
Plant Pathology:						
Technique	30	2	..	2	Second	
Diseases of Plants	31	4	2	2	First	
Plant Pathology	32	4	2	2	Second	
Mycology	33	4	2	2	First	
Projects	34	4	..	2	Both	
Seminar	35	2	..	1	Both	
Plant Pathology	36	8	2	2	Both	
Poultry Husbandry:						
History of Breeds and Judging	31	2	..	2	First	1947-48
General Poultry Husbandry	33	3	3	..	First	
Laboratory work of Course 33	330	1	..	1	First	
Breeding Principles	34	3	2	1	Second	1947-48
Poultry Farm Management	35	4	1	1	Both	
Research	36	4	..	2	Both	
Projects (Third Year)	37	2	..	2	Second	
Projects (Fourth Year)	37	6	..	3	Both	
Poultry Nutrition	38	3	2	1	Second	1947-48
Sociology:						
Modern Communities	40	3	3	..	First	1947-48
The Modern Family	41	3	3	..	First	1948-49
Zoology:						
Comparative Vertebrate Anatomy	31	8	2	2	Both	1947-48
Technique	32	2	..	2	First	

SYLLABUS

B.Sc. (H.Ec.) Course

Third and Fourth Years

SUBJECTS	Course No.	Periods per week		Term Given	Year	Curricula for Students taking	
		Lects.	Labs.			Dietetics	Education
Bacteriology:—							
Bacteriology	31	2	2	First	3rd	x	x
Chemistry:—							
General Biochemistry	32 & 320	2	2	First	3rd	x	x
Physiological Chemistry	47 & 470	2	2	Second	3rd	x	x
Textile Chemistry	50	..	1	Both	4th		x
Clothing:—							
Principles of Clothing Construction	30	..	3	Either	3rd	x	x
Advanced Clothing	40	..	3	Both	4th		x
Economics:—							
Elementary Principles	20	3	..	Second	3rd	x	x
Education:—							
Educational Psychology	30	3	..	First	3rd	x	x
Methods of Teaching	40a	3	..	First	4th		x
Practice Teaching	40b	2	2	Second	4th		x
Public Education	42	3	..	Either	4th	x	x
English:—							
Modern Literature	25	1	..	First			
		2	..	Second	3rd or 4th		
Speaking and Writing	26	2	..	First			
		1	..	Second	3rd or 4th		
Literature of Utopia	30	1	..	First			
		2	..	Second	3rd or 4th		
Literature of Rural Life	31	1	..	First			
		2	..	Second	3rd or 4th		
Extension Methods	30	1	1	Both	3rd or 4th		
Foods and Cookery:—							
Advanced and Experimental Cookery	32	1	2	Both	3rd	x	x
Food Values	33	1	1	First	3rd	x	x
Household Administration:—							
Home Management	31	1	3	Either	3rd or 4th	x	x
Institution Administration:—							
Institution Administration	40	2	..	Both	4th	x	x
Institution Practice	41	..	3	Either	4th	x	x
Nutrition and Dietetics:—							
Fundamentals of Nutrition	30	2	..	Both	4th	x	x
Nutrition Laboratory	300	..	2	First	4th	x	
Diet Therapy	41	5	1	Second	4th	x	
Nutrition Seminar	44	2	..	First	4th	x	x
Dietetics—Family and Community Nutrition	46	2	1	First	4th	x	x
Physics:—							
Biophysics	33a	1	1	First	3rd	x	x
Physiology:—							
Elementary Physiology	30	3	..	Second	3rd	x	x
Psychology:—							
Educational Psychology (see Education 30)							
Child Psychology	31	3	..	Either	3rd or 4th		
Sociology:—							
Modern Communities	40	3	..	Either	1947-48		
The Modern Family	41	3	..	Either	1948-49		
Textiles:—							
Textile Fibres and Fabrics	42	..	1	Both	4th	x	x
Elective (to be chosen from any non-compulsory course)	..	3	..	Either	3rd or 4th	x	

SYLLABUS

Household Science

Homemaker Course

SUBJECTS	Course Numbers	First Term per week		Second Term per week	
		Lects.	Labs.	Lects.	Labs.
Art	5	1	1	1	1
Clothing and Textiles:					
Selection and Construction	5	4	4	(either term)	
Textiles and Laundering	6	1	1	(either term)	
English	5	3	..	3	..
Foods and Cookery	5	4	4	(either term)	
General Science	5	(3 or 4 periods per wk., 2 terms)			
Home and Family Life:					
The Family, Home and Homemaker	5	2	..	..	..
Child Development	6	..	..	1	..
Home Nursing	5	..	..	1	..
Horticulture	5	..	..	1½(8-10 wks.)	
Household Administration:					
General Assignment	5	1	..	..	..
Equipment and Furnishings	6	1 lect. per wk., 1st term			
		1 lect., 1 lab. per wk., either term			
Home Management	7	Experience arranged, either term			
Household Accounts	9	..	..	2 (8-10 wks.)	
Nutrition and Meal Planning:					
Principles of Nutrition	5	2	..	..	..
Meal Planning and Table Service	6	..	..	1	..
Physical Education	5	2 hrs. per wk., 2 terms			

II. COURSES IN HOUSEHOLD SCIENCE

(f) PARTIAL COURSES

Partial students may be accepted at the beginning of the session in the B.Sc. (H.Ec.) course, at the discretion of the Director and provided there is accommodation for them. For fees applicable, see page 3022.

(g) HOMEMAKER COURSE

The object of this course is to train girls to deal intelligently with problems relating to the management of a home. The courses are, therefore, planned to give the student training in the different branches of household work, supplemented by a study of the sciences and arts which are related to the home. In planning the course full consideration is given to modern economic development and its relation to the woman in the home.

This course is divided into two terms of one-half college year each, so that students may enter in September or at the beginning of the second half year at the end of January.

Entrance Requirements

1. For general requirements see page 3028.

2. All candidates for admission to the Homemaker Course must have entered their eighteenth year and have successfully completed at least one year of High School work.

Syllabus (see page 3079)

ART

5. Interior Decoration.—A study of homes and interiors including colour, furniture, textures and arrangements. Appreciation of Art in various fields and the compiling of illustrated notes to be bound in book form at the end of the year.

1 lect., 1 lab., per wk., 2 terms. Miss Cameron.

CLOTHING AND TEXTILES

5. Selection and Construction.—A study of dress design as it applies to the individual; standards for buying ready-made garments and household textiles; clothing budgets and good grooming. Construction of garments includes the making of tailored cotton pyjamas, a wash dress of cotton or spun rayon, a silk or wool dress, a silk undergarment or other garment depending on student progress and wardrobe needs. Approximate cost of course: $20 to $25.

4 lects., 4 labs., per wk., 1 term. Miss Guilford.

6. TEXTILES AND LAUNDERING.—A study of the construction of fabrics, finishing, dyeing and printing: major fibres and their reactions to laundering or cleaning; recent developments in textiles; laundry soaps, soaps and water softeners; stain removal; methods and practice in washing and ironing clothing and household fabrics including study of types of washers and ironers.

1 lect., 1 lab., per wk., 1 term. Miss Guilford.

ENGLISH

5. LITERATURE AND COMPOSITION.—Lectures and laboratory work will cover these topics and activities; reading comprehension, appreciation of good literature, practical forms of writing, good speech, the conduct of public meetings, debating and discussion methods.

3 lects. per wk., 2 terms. Professors Paton and Avison.

FOODS AND COOKERY

5. BASIC COOKERY.—This includes a study of food materials—their composition, cost and market conditions, as a basis for selection. Principles of food preparation are stressed and practice given in methods of cookery applicable to the home.

4 lects., 4 labs., per wk., 1 term.

GENERAL SCIENCE

5. PHYSICAL AND BIOLOGICAL SCIENCES.—An introduction to the elements of chemistry, physics and biology with special references to their application to the home.

3 or 4 periods per wk., 2 terms.

HOME AND FAMILY LIFE

5. THE FAMILY, HOME, AND HOMEMAKER.—This course deals with the historical development of family life; the functions of the family; personality and self-integration; the present-day homemaker and her role in family and community life.

2 lects. per wk., 1st term.

6. CHILD DEVELOPMENT.—The principles of child psychology as related to the study of child growth and development.

1 lect. per wk., 2nd term.

HOME NURSING

5. Red Cross Home Nursing.—Location, ventilation, furnishing, temperature, care of sick room; making of beds; bed baths; care of patient; taking temperatures; prevention and care of bed sores, emergencies, infectious diseases. Normal nutrition; care of young baby and mother. Dental health. (Red Cross Home Nursing Certificate granted.)

1 lect. per wk., 2nd term. (8-10 weeks).

HORTICULTURE

5. Home Gardening.—This course includes a study of vegetable gardening, fruit culture, the lawn, the management of plants used in the beautification of grounds and the care of decorative plants in the home.

1½ hrs. per wk., 8 to 10 wks., 2nd term.

HOUSEHOLD ADMINISTRATION

5. General Assignment.—Presentation of various aspects of home-making through the use of films, speakers, demonstrations and class assignments.

1 lecture period per wk., 1st term.

6. Equipment and Furnishings.—A study of house plans and kitchens, from the standpoint of convenience and attractiveness; selection, use and care of household equipment and furnishings, including practical work in cleaning; study of time management; accident prevention in the home; control of household pests.

1 lect. per wk., 1st term.
1 lect., 1 lab., per wk., either term. Miss Guilford.

7. Home Management.—See Home Management 31 (p. 3088).
Practice House Experience.

Equivalent of 2 labs. per wk., 1 term.

9. Household Accounts.—This course deals with the problems of household financing and includes the study of standards of living, budgeting, simple methods of household accounting, savings and investments. Practice is given in keeping personal accounts during this course.

2 lects. per wk., 8-10 wks., 2nd term.

NUTRITION AND MEAL PLANNING

5. Principles of Nutrition.—This course deals with the nutritional requirements for health, the provision for these in the diet, and the study of the nutritive properties of common food materials.

2 lects. per wk., 1st term.

6. MEAL PLANNING AND TABLE SERVICE. The application of nutrition in daily menu planning; menus for special occasions with appropriate table appointments; rules for table settings and service.

1 lect. per wk., 2nd term.

PHYSICAL EDUCATION

5. PHYSICAL EDUCATION.

2 hrs. per wk., 2 terms. Miss Varey.

PERSONALITY AND CONDUCT

Credit is given for good performance in this field.

HOMEMAKER EXAMINATIONS

A certificate is granted to a student who successfully completes the course of study in the Homemaker Course.

For pass standing a minimum of 50% of the marks in each subject and 60% of the aggregate marks for the course is required.

Homemaker students conditioned in more than two subjects will be considered as having failed in the examination and may be required to repeat the work of the term in which they have failed before proceeding with the work of the next term.

Students conditioned in not more than two subjects may remove the condition by passing a supplemental examination in the particular subject or subjects.

Time lost through absence from classes must be made up after class hours, unless an official report of illness is received.

Examination in any subject may be refused because of absence without accepted excuse from one or more classes in the subject. *See page* 3018.

(h) B.Sc. (H.Ec.) COURSE

This is a four-year professional course leading to the degree of Bachelor of Science in Home Economics.

The final year of the course has been arranged to give more specific training in two fields; in that of a dietitian and in that of a teacher of Household Science. Students enrolling for this year must decide before registering for which of these fields they desire to prepare.

A model Home Management House (the Walter M. Stewart House) is located on the College campus. In this house, under home conditions, the students learn the arts of home management.

A model dining department fitted with up-to-date equipment has been opened at "Glenaladale," a college staff residence. All B.Sc. (H.Ec.) students have an opportunity for practice work in this department as well as in the main kitchen and cafeteria during the final year.

While it is desirable for continuity of work that the whole four years be taken at Macdonald College, the subjects included in the first year are those of a general nature and may, therefore, be taken in the Faculty of Arts and Science at McGill (B.Sc. in Arts), or at any other university giving similar work.

Specialist Certificates for teaching Household Science subjects may be granted by the Protestant Central Board of Examiners of the Province of Quebec to candidates taking the teaching option who have been awarded the B.Sc. (H.Ec.) degree. These certificates are valid only in the Protestant schools of the Province of Quebec. Only those students who may legally teach in Protestant schools should attempt to qualify for this certificate. Those desiring to apply for the certificate will be required to teach a minimum of twelve lessons and undertake prescribed fieldwork.

Entrance Requirements

1. The general requirements, page 3028.

2. Academic requirements, page 3037, under "Entrance B.Sc. (Agr.) Course," with modifications indicated.

DESCRIPTION OF COURSES

ART

20. Interior Decoration and Art Appreciation.—A study of domestic architecture, period furniture, colour theory, and harmony, and planning of interiors. History of painting with special attention to the moderns.

2nd Yr.:—1 lect., 1 lab., per wk., 2 terms. Miss Cameron.

21. Costume.—History of costume; principles of design as applied to dress; fabrics used for clothing; wardrobe planning with student demonstrations.

2nd Yr.:—2 lects. per wk., 1 term. Miss Jenkins.

BACTERIOLOGY

31.—Bacteriology.—A course in general and food bacteriology.

3rd Yr.:—2 lects., 2 labs., per wk. 1st term. Professor Gray.

Text-book:—Buchanan and Buchanan—Bacteriology.

BOTANY

Taken with B.Sc. (Agr.)

10. Introductory Botany.

1st Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor Coulson.

CHEMISTRY

Taken with B.Sc. (Agr.)

10. INORGANIC CHEMISTRY.

1st Yr.:—3 lects., 2 labs., per wk., 2 terms. Professor Chapman.

20. ORGANIC CHEMISTRY.

2nd Yr.:—3 lects., 2 labs., per wk., 2 terms. Professor Chapman.

32. GENERAL BIOCHEMISTRY.

3rd Yr.:—2 lects. per wk., 1st term.

320. Laboratory portion of Course 32.

3rd Yr.:—2 labs. per wk., 1st term.

47. PHYSIOLOGICAL CHEMISTRY.—Prerequisite Chemistry 32 and Physics 33.

3rd Yr.:—2 lects. per week., 2nd term.

470. Laboratory portion of Course 47.

3rd Yr.:—2 labs. per wk., 2nd term.

50. TEXTILE CHEMISTRY.—Laboratory Course associated with Textiles 42. Examination of the structure, chemical composition and properties of textile fibres; bleaching; blueing and dyeing; analyses of water, soap and other laundry materials. Prerequisite: Textile 42.

4th Yr.:—1 lab. per wk., 2 terms.

CLOTHING

30. PRINCIPLES OF CLOTHING CONSTRUCTION.—Three garments are made, one each of cotton, wool and rayon.

3rd Yr.:—3 labs. per wk., 1 term. Miss Jenkins.

40. ADVANCED CLOTHING.—An advanced course in dressmaking and costume design including pattern making, draping and tailoring. Special experience in weaving is arranged with McGill University Handicrafts Division; for this a special fee is charged. Problems of fitting and clothing the child or high school girl are studied during the construction of remodelled garments.

4th Yr.:—3 labs. per wk., 2 terms. Miss Jenkins.

ECONOMICS

Taken with B.Sc. (Agr.)

20. Elementary Principles.

3rd Yr.:—3 lects. per wk., 2nd term. Professor Lattimer

EDUCATION

30. Psychology.—General and practical aspects applied to teaching, learning and living.

3rd Yr.:—3 lects. per wk., 1st term. Dean Laird (School for Teachers).

40. (a) Methods of Teaching.—The laws of learning and their application to teaching; a study of courses for elementary and secondary schools; selection and organization of subject matter for various types of lessons; teaching devices; class management; observation work and the teaching of at least two lessons.

4th Yr.:—The equivalent of 3 lects. per wk., 1st term. Professor Honey.

40. (b) Practice Teaching.—This will include a definite amount of practice teaching with further opportunity for observation. Problems arising from practice teaching at Macdonald College and in Montreal will serve as a basis for some of the discussion. There will be examination of the types of laboratories used in the teaching of Household Science and selection of equipment for same. Methods of keeping necessary records will be investigated. School law will be studied. Field experience is required, to be taken at a time convenient to all concerned.

4th Yr.:—2 seminars, 2 labs. per wk., 2nd term Professor Honey.

42. Public Education.—This course is planned to furnish experience in the preparation and presentation of material for the public in the form of radio broadcasts, food and clothing demonstrations, job instruction training, etc.

4th Yr.:—3 lects. per wk., 1 term. Professors Honey and McCready.

ENGLISH

Taken with B.Sc. (Agr.)

14. English Composition.

1st Yr.:—1 lect., 1 lab., per wk., 2 terms. Professor Avison.

16. English Literature.

1st Yr.:—2 lects. per wk., 2 terms. Professor Avison.

25. Modern Literature.—An extension of Course 16, with topics and readings drawn from the work of British, Canadian and American

writers in the period from 1880 to the present. This course may be elected by third or fourth year students.

2nd Yr.:—1 lect. per wk., 1st term; 2 lects. per wk., 2nd term. Professor Paton.

26. SPEAKING AND WRITING.—An extension of Course 14 for students who require or desire further practice in oral and written expression. Laboratory periods may be substituted for lectures. This course may be elected by third or fourth year students.

2nd Yr.:—2 lects. per wk., 1st term; 1 lect. per wk., 2nd term. Professors Avison and Paton.

All second year degree course students must take either English 25 or English 26. The prerequisite to these courses is successful completion of senior matriculation English Literature and Composition, or English 14 and 16 at Macdonald College.

30. THE LITERATURE OF UTOPIA.—A reading and discussion course on problems of human and social betterment as reflected in our literature. A schedule of topics and readings will be provided at the opening of the course, which will be conducted by lecture and seminar. Elective.

3rd or 4th Yr.:—1 lect. per wk., 1st term; 2 lects. per wk., 2nd term. Professor Paton.

31. THE LITERATURE OF RURAL LIFE.—A study of Canadian and American regional literature. The schedule of topics and readings, covering the period from pioneer settlements to the present day, will emphasize the large place in our literature held by prose and poetry which is inspired by the land and the people who live on the land. Elective.

3rd or 4ih Yr.:—1 lect. per wk., 1st term; 2 lects. per wk., 2nd term. Professor Avison.

EXTENSION METHODS

30. EXTENSION METHODS.—An elective course in public speaking, study group technique, extension methods in Agriculture and Household Science, rural sociology.

3rd or 4th Yr.:—1 lect., 1 lab., per wk., 2 terms. Professor Avison and Committee.

FOODS AND COOKERY

26. BASIC COOKERY.—A study of foods from the standpoint of nutritive value, Canadian food laws, production and selection. The principles of cookery are taught and applied.

2nd Yr.:—2 lects., 3 labs., per wk., 2 terms, and five days of laboratory work in food preservation prior to the opening of the session. Professor Honey.

32. Advanced and Experimental Cookery.—This is an advanced food preparation course in which one term is spent on experimental cookery.

3rd Yr.:—1 lect., 2 labs., per wk., 2 terms. Miss Stickwood.

33. Food Values.—Calculation of the nutritive value of foods and meals, with practical application.

3rd Yr.:—1 lect., 1 lab., per wk., 1st term. Miss Stickwood.

HOUSEHOLD ADMINISTRATION

20. Household Administration.—A study of the organization and management of the home including time management, marketing, meal planning, table service, house-planning and factors in selection, care, and arrangement of household furnishings and equipment.

2nd Yr.:—3 lects., 1 lab., per wk., 2nd term. Miss Wilson.

31. Home Management.—A study of the philosophy, responsibilities and economics of the home. Opportunity is given to study the value of organization in a well-equipped house on the campus. Under supervision the students have complete charge of managing the home and gain experience in planning menus, marketing, accounting, and care of food supplies and equipment.

3rd or 4th Yr.:—3 weeks. The equivalent of 1 seminar, and 3 labs., per wk., 1 term. Miss Wilson.

HOUSEHOLD SCIENCE

10. Introduction to Household Science.—A course of lectures arranged to acquaint the student with the development and scope of Household Science training.

1st Yr.:—3 lects. per wk., 1st term. Household Science Staff and others.

INSTITUTION ADMINISTRATION

40. Institution Administration.—A study of the principles of efficient organization and administration related to food service and housekeeping in institutions. General principles of purchasing of food and equipment for large quantity food work. Field trips.

Students in the Teaching Option are required to attend the first four weeks of this course, and go on field trips as arranged, as prerequisite for Institution Administration 41. Credit will be given for this work in the latter course.

4th Yr:—2 lects. per wk., 2 terms. Miss Stickwood.

41. INSTITUTION PRACTICE.—Practical experience in dining departments and also in institution routines.

4th Yr.:—3 labs. per wk., 1 term. Miss Stickwood and staff.

MATHEMATICS

Taken with B.Sc. (Agr.)

10. ELEMENTARY MATHEMATICAL ANALYSIS.

1st Yr.:—3 lects. per week., 2 terms. Professor Steeves (School for Teachers).

NUTRITION AND DIETETICS

30. FUNDAMENTALS OF NUTRITION.—For description see Nutrition Department Course 30 in the B.Sc. (Agr.) syllabus.

4th Yr.:—2 lects. per wk., 2 terms. Professor Crampton.

300. NUTRITION LABORATORY.—For description see Nutrition Department Course 300 in the B.Sc. (Agr.) syllabus. Not required of students in the Teaching Option.

4th Yr.:—2 labs. per wk., 1st term. Professor Crampton and Mr. Ashton.

41. DIET THERAPY.—The function of nutrition as a curative and preventive factor in disease. Visits to hospital clinics and dietary departments. Field trips.

4th Yr.:—5 lects., 1 lab., per wk., 2nd term. Miss Stickwood.

44. NUTRITION SEMINAR.

4th Yr.:—2 lects. per wk., 1st term. Professors McCready and Crampton.

46. DIETETICS.—FAMILY AND COMMUNITY NUTRITION.—A course of study of the food needs of individuals and families with practice in budgeting, conducting food study classes and experience in or trips to child welfare clinics, etc.

4th Yr.:—2 lects., 1 lab., per wk., 1st term. Professor McCready and staff.

PHYSICAL EDUCATION

10. Physical Education will be included in the work of the first year, all students being required to attend a minimum of two hours weekly during the session. Opportunity is provided for participation of all students in archery, swimming, basketball, skating, hockey and badminton.

1st Yr.:—1 period per wk., 2 terms. Miss Varey.

PHYSICS

Taken with B.Sc. (Agr.)

12. General Physics.

1st Yr.:—3 lects., 1 lab., per wk., 2 terms. Professor Rowles.

33a. Biophysics.

3rd Yr.:—1 lect., 1 lab., per wk., 1st term. Professor Rowles.

PHYSIOLOGY

Taken with B.Sc. (Agr.)

30. Elementary Physiology.

3rd Yr.:—3 lects. per wk., 2nd term. Professor Swales.

PSYCHOLOGY

Educational Psychology.—See course Education 30.

31. Child Psychology.—The course will follow the development of the child from prenatal stages through the years of middle childhood. Special emphasis will be placed on the practical aspects of child care, training, behavior symptoms and the everyday problems of the normal child. Elective.

3rd or 4th Yr.:—3 lects. per wk., 1 term. Mrs. Willis.

SOCIOLOGY

40. Modern Communities.—A study of typical modern communities in rural and urban areas; the relations of rural and urban communities as indicated by the spread of urbanization; present-day trends in the social and economic organization of rural and urban communities; present-day community problems. Elective.

3rd or 4th Yr.:—3 lects. per wk., 1 term. Given in 1947-48. Hours to be arranged. Professor Dawson (Faculty of Arts and Science).

41. The Modern Family.—The social and economic backgrounds of the modern family; the varied marriage systems of different parts of the world; modern trends in family standards of living; forces making for social change and readjustment of the family in North America; factors making for future family stability. Elective.

3rd or 4th Yr.:—3 lects. per wk., 1 term. Given in 1948-49 Hours to be arranged. Professor Dawson.

TEXTILES

10. LAUNDERING.—Effect of common chemicals on textile fabrics; methods of laundering, stain removal and dry cleaning; study of laundry equipment.

1st Yr.:—2 lects., 1 lab., per wk., 2nd term. Miss Jenkins.

42. TEXTILE FIBRES AND FABRICS.—The source, construction, properties and qualities of textile fibres and fabrics for clothing, household and institutional use. Furnishings for the home and institution will be studied in order to establish a basis for the wise selection of textile materials by the consumer. Prerequisite to Chemistry 50.

4th Yr.:—1 lab. per wk., 2 terms. Miss Jenkins.

ZOOLOGY

Taken with B.Sc. (Agr.)

20. GENERAL ZOOLOGY.

2nd Yr.:—2 lects., 2 labs., per wk., 2 terms. Professor DuPorte, Mr. Whitehead and Professor Morrison.

B.Sc. (H.Ec.) COURSE EXAMINATIONS

(See page 3070)

BOOKS

Students will be required to secure text-books for some of the courses. These may be obtained at the College, and $15.00 per year should cover the cost for the B.Sc. (H.Ec.) Course.

THE SCHOOL FOR TEACHERS

By an agreement with the Government of the Province of Quebec, dated February 25 and 26, 1907, confirmed by an Act of the Legislature of the Province of Quebec, 7 Edward VII, 1907, chapter 26, it was provided that a school for the training of teachers for the schools under the control of the Protestant Committee of the Council of Education should be established and carried on at Ste. Anne de Bellevue in lieu of the McGill Normal School in Montreal, under the regulations of the Protestant Committee.

This institution is intended to give a thorough training to teachers, by instruction and training in the School for Teachers itself, and by practice in the practice schools; and the arrangements are of such a character as to

afford the greatest possible facilities to students from all parts of the Province. Diplomas are awarded to teachers-in-training of this school, and to graduates of Canadian or other British universities who have received the necessary training.

Demonstration lessons, criticism lessons, and practice teaching are given in Macdonald High School, which is organized from Kindergarten to Matriculation classes. Variety of experience is obtained by supplementary practice in the Montreal Protestant schools and in rural schools of the Province of Quebec.

ANNOUNCEMENT FOR THE SESSION 1947-48

The forty-first session of this school will begin on the second of September, 1947, and will close on the tenth of June, 1948.

The students are graded as follows:

1.—*Elementary Class.*

2.—*Intermediate Class.*

3.—*Kindergarten Class.*

ENTRANCE REQUIREMENTS

Teachers to be trained for the schools under the control of the Protestant Committee of the Council of Education for the Province of Quebec will be admitted under conditions prescribed by that body, as hereinafter mentioned.

After receiving certificates of admission, candidates accepted must send to the authorities of Macdonald College a certificate of vaccination as follows: (a) Successful vaccination within seven years; or (b) Immunity to vaccine after two recent unsuccessful vaccinations; such certificate of immunity to be good for five years from date.

Whenever the authorities of Macdonald College receive the lists of candidates admitted to the various classes, they will communicate immediately with all accepted candidates regarding registration, the sending of the admission certificate and the vaccination certificate. They will also forward a copy of the announcement to those who have not already received one. Candidates who are accepted are, therefore, requested to withhold separate inquiries, pending receipt of such general advice from the College.

Candidates who have received admission certificates, but find themselves unable to attend the College, are requested to advise Dr. W. P. Percival, Department of Education, Quebec, Que., of that fact without delay.

MODE OF ADMISSION TO THE SCHOOL FOR TEACHERS

Anyone desiring to take a course in the School for Teachers to qualify for teaching in the Province of Quebec, must apply for authorized forms of application for admission, and for all other information, to the Secretary of the Protestant Central Board of Examiners, Dr. W. P. Percival, Department of Education, Quebec, Que. Application for admission must be made on *or before July 20th.* As Macdonald College is a residential institution, this date must be observed.

Candidates are advised to obtain and read carefully the circular entitled *Information for Candidates* issued by the Protestant Central Board of Examiners.

Candidates for any class must be British subjects, or must have begun the necessary proceedings to become such, and must furnish the certificates of age and of good moral character, as required by the regulations. They must also send a medical certificate on a special form obtainable from Dr. Percival, together with an X-ray photograph. These must show to the satisfaction of the Central Board that the candidate is in good health and free from physical defects likely to interfere with his or her usefulness as a teacher.

All such candidates, before entering upon a course, must sign an agreement to teach in the Province of Quebec for at least three years after graduation. Such service is expected in lieu of a tuition charge.

Candidates for diplomas for teaching in the Province of Quebec must satisfy the requirements laid down by the Protestant Central Board of Examiners for entrance to the several courses of study in the School for Teachers. Their attention is specifically called to the fact that the courses in French in the School for Teachers are conducted largely in that language. Students who have not had Oral French in the High School grades should make themselves familiar with Oral French as far as possible before entering the School for Teachers. Otherwise, they will find themselves seriously handicapped.

ELEMENTARY DIPLOMA. The examinations for admission to the Elementary Class in the School for Teachers are the High School Leaving or University Matriculation examinations, showing a pass in ten papers.

Candidates for this certificate should have entered their eighteenth year before the first day of September, 1947; that is, they should have been born before the first day of September, 1930.

INTERMEDIATE DIPLOMA. The examinations for admission to the class leading to the intermediate certificate are the Senior High School Leaving or the Senior University Matriculation examinations. Candidates

for admission to the Intermediate class or for intermediate certificates must also have passed in ten approved papers in the High School Leaving (Grade XI) examination.

The holder of an elementary certificate or diploma who has completed a full session of training and who has subsequently obtained a senior high school leaving certificate, or its equivalent, will be granted an intermediate certificate without further attendance in the School for Teachers. For this purpose the examination for the senior high school leaving certificate may be taken in two parts.

Candidates for this diploma should have entered their nineteenth year before the first day of September, 1947; that is, they should have been born before the first day of September, 1929.

KINDERGARTEN CLASS. The Kindergarten Director's Course is of one year's duration. For entrance to it there is required either: (a) An elementary certificate or diploma; or (b) *For Montreal students only*, a Kindergarten Assistant's certificate.

Candidates for this diploma are admitted only upon a report of the Dean of the School for Teachers to the effect that they possess the necessary special fitness for kindergarten work.

SPECIAL CONDITIONS

The Central Board of Examiners has the right to admit to any class, in exceptional cases, persons whose qualifications may be insufficient for entrance. Any person who applies for admission under special circumstances should give on the back of his application form a full statement of his reasons for asking special consideration.

The Central Board of Examiners may grant diplomas of any grade to candidates in special cases upon any examination specifically indicated by it.

The Central Board of Examiners has power to limit the number of admissions to the School for Teachers.

BURSARY REGULATIONS

Applying to those who enter the School for Teachers in September, 1947

155. Bursaries of one hundred dollars each shall be paid from the released Normal School fund to such teachers-in-training for elementary certificates in the School for Teachers as shall comply with the regulations in regard thereto, as follows:

(a) Candidates must promise by a witnessed writing to teach three years in some rural elementary school in the Province of Quebec.*

(b) Candidates must enter into a joint obligation with a parent or guardian to reimburse to the Department of Education the amount of the bursary received should they not, within five years, fulfil their said obligation to teach.

(c) No candidate may receive a bursary for two years, but, in case of failure in one year, he may receive the balance of the bursary on the successful completion of his course in a subsequent year.

(d) Candidates for bursaries shall make their applications for the same to the Secretary of the Central Board of Examiners when applying for admission to the School for Teachers.

(e) It is further provided that, in addition to the payment of the foregoing bursaries, similar bursaries shall be paid to such teachers as having not signed the required promise to teach, nevertheless have fulfilled the obligation entered into by others to teach three years in some rural school in the Province of Quebec.

156. (a) The bursaries to teachers-in-training shall be paid in two equal instalments, in December and in June, to those only who are certified by the Dean of the School for Teachers to have pursued their course of studies with reasonable diligence, and to this end the School for Teachers shall draw upon the Department of Education, make the individual payments, and render an account to the Director of Protestant Education.

(b) The bursaries to teachers who come under the provisions of regulation 155 (e) shall be divided into three equal portions and shall be paid only at the end of each year of successful teaching, but in no case shall they be paid after five years from the date of the diploma.

Although students who take the course leading to an intermediate certificate do not receive a bursary during attendance at the School for Teachers, they may do so under this regulation and regulation 155 (e) after they shall have qualified by teaching in some rural school.

(c) The Director of Protestant Education may release for good and sufficient cause a teacher from any obligation to teach three years in the Province of Quebec, but this release shall not remove the obligation to return any bursaries that may have been received.

For official form of certificate of teaching required under regulation 155 (e), and any other information, apply to Dr. W. P. Percival, Department of Education, Quebec, Que.

*The elementary department of an Intermediate or of a High School is not included in this term.

Additional Bursaries

In view of the shortage of teachers, additional bursaries are available for suitable candidates who would otherwise find difficulty in attending the School for Teachers.

TRAVELLING EXPENSES

On being awarded an elementary, intermediate, or kindergarten certificate, each teacher-in-training at the School for Teachers residing 200 miles or more from Montreal will be paid, out of the funds provided by the Government, the sum of five cents for each mile that his home, in the Province of Quebec, is distant from Macdonald College.

TEACHERS' DIPLOMAS

The Director of Protestant Education and the Protestant Central Board of Examiners, under Regulation 114 of the Regulations of the Protestant Committee, alone have the power to grant certificates and diplomas valid for Protestant schools.

To graduates of training courses, interim certificates shall be granted of the following grades, namely: kindergarten, elementary, intermediate, and high school The elementary certificate is primarily intended to permit the holder to teach in rural elementary schools.

Interim kindergarten and high school certificates shall be exchanged for permanent diplomas of the respective grades when evidence of successful teaching for two years shall have been submitted to the Director of Protestant Education.

Interim elementary and intermediate certificates shall be exchanged for permanent elementary and intermediate diplomas when evidence of successful teaching for two years shall have been submitted to the Director of Protestant Education as well as of the successful completion of one session at an approved summer school.

Holders of interim certificates who, in the opinion of the Inspector, shall have taught successfully shall receive from him statements to that effect. When teachers have obtained two such recommendations and have satisfied summer school requirements that may be demanded of them, they shall send the statements together with their interim certificates to the Department of Education where they will be exchanged for permanent diplomas.

Under the regulations of the Protestant Committee, certificates and diplomas of any grade are given only to teachers who have taken professional training.

The examinations for elementary, kindergarten, and intermediate certificates shall be the sessional examinations of the School for Teachers, together with reports on ability to teach and to govern, rendered by the Dean of the School.

Advanced elementary and advanced intermediate diplomas are granted after successful attendance at approved professional summer schools, in accordance with the regulations.

Graduates and undergraduates who are candidates for High School diplomas must take the lectures in Education provided by the universities or the School for Teachers, and during their third and fourth years, or their post-graduate year, must teach fifty half-days, as required by regulation. The months of September, May and June are set apart for this practice-teaching.

All holders of intermediate diplomas from the School for Teachers shall be entitled to receive high school diplomas on graduating at some Canadian or other British University provided they have fulfilled the requirements in regard to their degree course that are demanded in Regulation 129 (f).

ELEMENTARY CLASS STUDYING FOR AN ELEMENTARY CERTIFICATE

The course for the above certificate falls naturally into the following divisions: (a) A general review of subjects taught in rural schools; (b) Special methods of teaching the following: English, Arithmetic, French, History, Geography, Nature Study and Agriculture, Writing, Art, Hygiene and Physical Training, Scripture, Music, Primary Methods; (c) Courses in the Principles of Education, Educational Psychology, Tests and Measurements, School Management and School Law; (d) Observation and practice teaching. A great deal of emphasis will be laid on the ability displayed by teachers-in-training in this phase of their work.

FOR THE KINDERGARTEN DIRECTOR'S CERTIFICATE

The Kindergarten Director's Course extends for one year. For entrance to it candidates must possess either: (a) An elementary certificate or diploma; or (b) *For Montreal students only*, a Kindergarten Assistant's certificate.

The candidates must also have additional qualifications, such as love of children, a good voice, musical ability, and an engaging manner.

To enter upon the course leading to a Kindergarten Assistant's certificate, given in co-operation with the Protestant Board of School Commissioners of Montreal, the candidate must have a School Leaving or Matriculation certificate, and must undertake to follow the two years' course of lectures and practice work.

In the Kindergarten Director's Course, students will be employed in the practical work of the Kindergarten during the forenoon of each school day, and will follow a selected course of practical and professional training every afternoon.

Among the subjects taken will be Principles of Education, History of Infant Education, School Management and Law, Kindergarten Theories, Nature Study, Music, Art Work, Hand Work, Physical Training, Games and Songs of the Kindergarten, Stories and Story-telling.

Special attention will be paid to transition work, so that it is hoped those who complete the work of this Class will be specially fitted for the difficult task of training young children effectually in the rudiments of ordinary school work in succession to the work of the Kindergarten, bridging over the chasm that too frequently separates the Kindergarten from the Primary Class.

INTERMEDIATE CLASS STUDYING FOR THE INTERMEDIATE CERTIFICATE

Regular courses of lectures in the History of Education and in the Principles of Education, School Management and Law, will continue throughout the year. In the specific subjects of Agriculture, Elementary Algebra, Arithmetic, Art and Manual Training, English, French, Geography, Geometry, History, Music, Nature Study, Needlework, Physical Culture, Physiology and Hygiene, the same general methods will be employed as in the class studying for the elementary certificate, and just as in it (see page 3097) observation and practice in teaching will receive particular attention.

DESCRIPTION OF COURSES

AGRICULTURE

(See GEOGRAPHY and NATURE STUDY, pages 3101, 3102)

ART AND MANUAL TRAINING

COURSE 1—INTERMEDIATE CLASS.—The Art and Manual Training prescribed for elementary and intermediate schools.

COURSE 2—ELEMENTARY CLASS.—Work suitable for elementary and rural schools.

COURSE 3—KINDERGARTEN CLASS.—Work suitable for younger children; also advanced Art in a variety of media.

EDUCATION

COURSE 1—HISTORY OF EDUCATION.—INTERMEDIATE CLASS.—Educational theories and practices from Socrates to modern times.

COURSE 2—EDUCATIONAL PSYCHOLOGY. INTERMEDIATE CLASS. The main aspects of Psychology as they are of direct practical value in the art of teaching.

COURSE 2a—MENTAL HYGIENE. INTERMEDIATE CLASS. Training for exceptional children.

COURSE 3—PRINCIPLES OF GENERAL METHOD. INTERMEDIATE CLASS. Various types of lessons, methods and devices.

COURSE 4—SCHOOL AND CLASS MANAGEMENT. INTERMEDIATE CLASS. Various types of schools, their organization, classification and management, from the smaller routine items to the larger problems of time-table construction, discipline, and control.

COURSE 5—SCHOOL LAW AND REGULATIONS. INTERMEDIATE CLASS. The school law and regulations affecting teachers and pupils.

COURSE 6—EDUCATION, PRINCIPLES OF GENERAL METHOD. ELEMENTARY CLASS. The fundamental principles underlying all special methods, organization of subject matter, the planning of recitations, various types of lessons.

COURSE 7—EDUCATIONAL PSYCHOLOGY. ELEMENTARY CLASS. Those aspects of Educational Psychology which are of importance to the teacher.

COURSE 8—MENTAL HYGIENE—ELEMENTARY CLASS. See Course 2a.

COURSE 9—SCHOOL AND CLASS MANAGEMENT. ELEMENTARY CLASS. Same as Course 4 except special emphasis will be laid on rural organization, etc.

COURSE 10—SCHOOL LAW AND REGULATIONS. ELEMENTARY CLASS. Same as Course 5.

COURSE 11—SEMINAR IN PRACTICE TEACHING. ELEMENTARY AND INTERMEDIATE CLASSES. Criticism and discussion of actual lessons taught by students in the Practice School and in Montreal schools.

COURSE 12—PRINCIPLES AND PRACTICE. KINDERGARTEN DIRECTORS' CLASS. Various types of Kindergarten theories and practices.

COURSE 13—HISTORY, THEORY AND PRACTICE OF THE KINDERGARTEN. KINDERGARTEN DIRECTORS' CLASS. Development of modern methods and current practice.

COURSE 14—THEORY AND PRACTICE OF THE KINDERGARTEN. KINDERGARTEN ASSISTANTS' CLASS. This course is given to the Kindergarten Assistants' Classes in the High School for Girls, Montreal.

COURSE 15—CHILD PSYCHOLOGY. KINDERGARTEN ASSISTANTS' CLASS. This course is given in the High School for Girls, Montreal.

COURSE 16—EDUCATIONAL PSYCHOLOGY, 3RD YEAR B.Sc. (H.Ec). STUDENTS. See page 3086.

NOTE.—For courses in Education required for the High School diplomas, see the Announcement of the Faculty of Arts and Science, McGill University.

ENGLISH

INTERMEDIATE CLASS:

COURSE 1: Literature (Reading and Appreciation). Content and methods, applied to the prescribed courses of study in elementary schools; problems in silent and oral reading; tests of reading ability; examinations in literature.

COURSE 2: Language (Composition and Grammar). Typical units of oral and written work throughout the grades; a study of grammar—functional for the pupil, formal for the teacher; spelling and vocabulary building; the marking of written compositions.

COURSE 3: English, the Curriculum, and the Teacher—The relation of English to other subjects on the course of study; special problems in the junior high school grades; academic and professional preparation to teach English acceptably.

ELEMENTARY CLASS:

COURSES 1 AND 2: As above.

COURSE 3: Problems of English teaching in elementary and rural schools.

FRENCH

COURSE 1—INTERMEDIATE CLASS. Pronunciation, review, methods, and devices for teaching Oral French. An individual oral examination is required from all students.

COURSE 2—ELEMENTARY CLASS. Lessons suitable for elementary and rural schools.

Opportunities for practice are afforded by the constant use of French in the class room and at the Cercle Français where meetings are conducted entirely in French. The programmes of the Cercle Français consist of songs, games, impromptu speeches, short plays, illustrated lectures and an occasional *causerie* by well-known French speakers.

GEOGRAPHY

COURSE 1—INTERMEDIATE CLASS. Review of fundamental principles, detailed studies and methods of teaching.

COURSE 2—ELEMENTARY CLASS. Scholarship and methods suitable for elementary and rural schools.

Intermediate and Elementary students are requested to provide themselves with a copy of Frye and Gammell's *Geography*, Thralls and Reeder, *Geography in the Elementary School* (Rand McNally), Bradley, *World Geography* (Ginn & Co.).

HISTORY

COURSE 1—INTERMEDIATE CLASS. Methods of teaching the Course of Study. Special study of selected periods.

COURSE 2—ELEMENTARY CLASS. Methods adapted to elementary and rural schools.

Intermediate and Elementary students are requested to provide themselves with a copy of Brown, *Building the Canadian Nation* (Dent.) as well as a *Canadian History Note Book*, published by Copp Clark Co.

MATHEMATICS

COURSE 1—INTERMEDIATE CLASS.

a. ARITHMETIC. Present-day movements and methods of teaching Arithmetic.

b. ALGEBRA AND GEOMETRY. Methods for teaching the Course of Study for Grades VIII and IX.

Texts Required:—Morton's *Teaching Arithmetic in the Elementary School*, Vol. II (Revised edition); Hart: *Progressive High School Algebra* (Revised Canadian edition), Lougheed and Workman: *Geometry for High Schools*.

COURSE 2—ELEMENTARY CLASS. Arithmetic for elementary and rural schools.

Texts Required:—Morton's *Teaching Arithmetic in the Elementary School*, Vol. II, *Intermediate Grades* (Revised Edition).

MUSIC

COURSE 1—KINDERGARTEN CLASS. Methods and music suitable for the Kindergarten.

COURSE 2—INTERMEDIATE CLASS. The Course of Study and methods of teaching.

COURSE 3—ELEMENTARY CLASS. Music in elementary and rural schools.

Music Certificates. All students must devote individual study towards preparation for one of the music certificates issued by the Protestant Central Board of Examiners. The certificates are in four grades, viz.:—Preliminary, Junior, Senior and Advanced. Details of the necessary requirements will be found posted at all times in the College Music Room.

NATURE STUDY

COURSE 1—KINDERGARTEN DIRECTORS CLASS. Methods of teaching nature topics suitable for kindergarten and primary children.

COURSE 2—INTERMEDIATE CLASS. Methods of teaching nature topics on a seasonal basis according to local environment.

COURSE 3—ELEMENTARY CLASS. Methods and suggestions suitable for elementary and rural schools.

NEEDLEWORK FOR WOMEN

Construction of simple, attractive and useful articles employing the use of various hand stitches and the sewing machine. A study of materials and their uses, properties of the various fibres and simple tests for their identification. One period a week for one term.

PHYSICAL EDUCATION

INTERMEDIATE AND ELEMENTARY CLASSES.

The authorized course is the *Syllabus of Physical Training for Schools, 1933*, supplemented with indoor and outdoor games, etc.

Students must wear the regulation costume for gymnastic work. See page 3027.

Students wishing to swim must provide themselves with woollen bathing suits of guaranteed fast dye.

STRATHCONA TRUST CERTIFICATE

Students in the School for Teachers must qualify themselves to pass the examinations for Strathcona Trust Certificates, and be able to teach the *Syllabus of Physical Exercises, 1933*, approved by the Strathcona Trustees and adopted for the province:—Grades A and B for men and Grade B for women.

TROPHIES, CUPS AND MEDALS FOR WOMEN. See page 3112.

PHYSIOLOGY AND HYGIENE

COURSE 1—INTERMEDIATE CLASS. Personal and School Hygiene; methods of teaching the Course of Study.

COURSE 2—ELEMENTARY CLASS. Conditions and needs of rural schools, in relation to Personal and School Hygiene.

PRIMARY METHODS

COURSE 1—KINDERGARTEN DIRECTORS CLASS. Kindergarten methods leading to the work of the early primary grades.

COURSE 2—INTERMEDIATE CLASS. Junior children and the approach to Language, Reading, Spelling, Poetry, Story, Geography, History, Writing and Scripture, Number Work.

COURSE 3—ELEMENTARY CLASS. Methods and suggestions for the work in the junior and beginners' classes in elementary and rural schools.

A practical course is given in the preparation of classroom and individual material. Students are advised to bring smocks, scissors, penknife.

ENTERPRISES—Theory and practical work will be carried out by all students.

RELIGIOUS INSTRUCTION

Teachers-in-training will be required to state with what religious denomination they are connected, and to meet weekly for Religious Instruction in accordance with the scheme approved by the Protestant Committee. In addition to punctual attendance at weekly Religious Instruction, each student will be required to attend public worship at least once every Sunday.

SCRIPTURE

INTERMEDIATE, ELEMENTARY, AND KINDERGARTEN CLASSES.
The course of study, moral training and opening exercises.

BOOKS

See also page 3024

Students should bring with them all books in their possession which may be of service in preparing to teach elementary, intermediate or High School classes, and also books on the professional training of teachers.

Textbooks in the various classes are announced by each professor or lecturer at the beginning of the session, and are naturally subject to change from time to time unless specified under the various courses.

ROOM FURNISHINGS

For room furnishings required, see page 3024.

THE MACDONALD HIGH SCHOOL

The Macdonald High School is organized as a Protestant High School, and in general subjects follows the courses prescribed by the Protestant Committee of the Council of Education for the kindergarten, elementary, intermediate, and High School grades of the Province. Special courses are also given by specialists in Music, Physical Training, Cooking, Sewing, Manual Training, Physics, and Chemistry.

The School will open Tuesday, September 2nd.

There are no fees for Protestant children from the Protestant School Municipalities of Ste. Anne de Bellevue, Ste. Anne du Bout de l'Isle, Senneville, and Vaudreuil-Dorion, but for all other pupils, who are accepted if there is accommodation, there is a fee of $70.00 per pupil per year of all grades. This fee is payable *strictly in advance*, by four instalments of $17.50 each to the Secretary, Macdonald College, Que., on September 1st, November 1st, February 1st, and April 1st, respectively. The College reserves the right to make changes without notice in its published schedule of fees.

There is no residence accommodation for pupils attending the High School.

All candidates for admission to the High School must produce a medical certificate of vaccination as follows: (a) Successful vaccination within seven years, or (b) Immunity to vaccine after two recent unsuccessful vaccinations —such certificate of immunity to be good for five years from date.

See also page 3014

SCHOLARSHIPS AND PRIZES

GENERAL

Bursaries for Sons of Farmers

The following bursaries are available on application for *sons of farmers* of Quebec, the Ottawa Valley in Ontario, and the Maritime Provinces, who are living in residence at the College:

Diploma Course students	$ 10.00
Degree Course students	15.00
Postgraduate students	15.00
School for Teachers' students	15.00

Application for one of these bursaries or for renewal must be made before September 1st and must be accompanied by a recommendation from the local agronome, agricultural representative, or similar official.

Macdonald College Bursaries

A limited number of bursaries and scholarships are available for degree course students in the Faculty of Agriculture. These may be granted to students in any year of the course, but are intended primarily to assist deserving first-year students who might not be able to attend college without this assistance. The value varies from $50.00 to $100.00 according to circumstances, and they are renewable from year to year provided application is made in good time and the recipient's academic record justifies renewal.

Bursary holders may be required to undertake a certain amount of work for the College in return for their bursaries. The maximum number of hours any bursary holder may be asked to give is three hours a week throughout the session, or one hour for each dollar of his bursary, whichever may be smaller.

Scholarships may be granted to students of exceptionally high achievement. The winner of a scholarship receives the title and status of "College Scholar" but the amount actually awarded will depend upon the financial needs of the winner.

Applications for a bursary, and for renewal of a bursary, must be made to the Registrar, on forms provided, before August 15th each year.

Prize for Creative Writing

The Havela Segal Memorial Prize, endowed in memory of the late Havela Echenberg Segal, a former student of Macdonald College, has a present value of $50.00. It is offered annually for the best piece of original writing submitted by any student of Macdonald College. Entries must reach the Registrar not later than June 1st, 1948.

FACULTY OF AGRICULTURE

Diploma Course

The Fisher Trust Fund, in memory of the late Honourable Sydney A. Fisher, formerly Member of Parliament for Brome County and Minister of Agriculture, Canada, offers for the session 1947-48, two agricultural scholarships of $75.00 a year each, tenable at Macdonald College for two years, for the Diploma Course in Agriculture, from November 1st, 1947, to March 31st, 1948, on the following conditions:—

1. The candidates must be sons of farmers in the County of Brome, co-operating in farm activities during the period of their college course.

2. The candidates must be at least sixteen years of age.

3. The candidates must have passed at least grade IX of the High School course.

4. These scholarships will be continued from term to term only upon favourable reports from the Dean of the Faculty of Agriculture.

Applications must be sent, on or before the 1st of October, 1947, to the Chairman of the Fisher Trustees, R. F. Cowan, Mansonville, Que.

Q.W.I. Bursary. The Quebec Women's Institute provides a bursary of $50.00 to the student entering the second year of the Diploma Course, who:—

(1) Is a professional farmer's son, (or daughter) from the Province of Quebec.

(2) Has spent at least one season (seed time to harvest) in his father's employ on the farm.

(3) Intends to return to his father's farm for at least one year on completion of his course (or to manage his own farm).

(4) And who, if more than one candidate presents himself as fulfilling the above three requirements, takes the highest proficiency in agricultural subjects in the first year or, if he is the only candidate, obtains at least class II standing in these subjects.

If no student can qualify for the above, this bursary will be made available as an entrance bursary to the first year of the Diploma Course.

La Ferme Prize. Robert Raynauld, M.S.A., Editor of *La Ferme* magazine, offers a prize of $25.00 for competition among students of the second year of the Diploma Course who come from farm homes and who intend to return to farming after graduation. The prize will be awarded to the eligible student who presents the best project.

Lieutenant-Governor's Medal. His Honour the Lieutenant-Governor of the Province of Quebec, gives annually a bronze medal, which is awarded to the student who takes the highest percentage in General Proficiency in the First Year of the Diploma Course.

Minister of Agriculture's Medals. The Honourable the Minister of Agriculture of the Province of Quebec, offers annually two bronze medals in connection with the Diploma Course, Second Year Class, to be presented to the students ranking first in the Dairy Farming and in the Fruit Farming Groups respectively.

B.Sc. (Agr.) Course

Nova Scotia College of Agriculture Scholarship. Macdonald College offers a scholarship of two years' tuition (value of $100.00) to the student of the Nova Scotia College of Agriculture obtaining the highest standing in the work of the Second Year of the degree course in that College.

The Borden Company Limited Scholarship. A scholarship valued at $200.00 is offered by the Borden Company Limited of Canada to encourage promising students who take a course of study of value to the dairy industry. The award will be made to a student on completion of his third year, half payable at the beginning of the first term of the fourth year, the balance at the beginning of the second term. The following factors will be considered in making the award: high standing in the subjects of his course during the third year with emphasis on dairying, dairy chemistry or dairy bacteriology; participation in student organizations and college activities; co-operation with students and staff in the advancement of the interests of the student body and the College as a whole.

Applications should be addressed to the Registrar before August 15th.

Chemical Institute of Canada Prize. The Chemical Institute of Canada offers a prize of books to the value of $25.00 to the student in the Chemistry Option with the highest standing at the end of the third year.

The Daughters of the Empire Scholarship. As a recognition of the value of agricultural education in their Province and Country, the Imperial Order of the Daughters of the Empire, Quebec Provincial Chapter, gives a scholarship of $200.00, tenable during the third and fourth years of the B.Sc. (Agr.) course, to the Canadian student who obtains the highest marks in the final examinations of the second year. The scholarship is payable to the winning student in two instalments of $100.00 each at the beginning of his third and fourth years respectively.

Governor General's Medal. His Excellency the Governor General of Canada donates a bronze medal to be awarded to the second year student who ranks highest in General Proficiency in first and second year work.

Lieutenant-Governor's Medal. His Honor the Lieutenant-Governor of the Province of Quebec gives annually a silver medal, which is awarded to the student who takes the highest standing in General Proficiency in the first year of the B.Sc. (Agr.) course.

The Stern Cup. Sir Edward D. Stern, Fan Court, Chertsey, Surrey, England, has donated a silver challenge cup, which is held for one year by the student who makes the highest aggregate in Stock Judging in the final year of the subject.

The Cutler Shield. Mr. Garnet H. Cutler, Professor of Agronomy, Purdue University, Lafayette, Indiana, the first lecturer in Cereal Husbandry, Macdonald College, has donated a bronze challenge shield, which is held for one year by the student majoring in Agronomy, who makes the highest aggregate in the final year.

The Conklin Trophy. Dr. Raymond L. Conklin gives a trophy to be awarded to the student in any year of the degree course who obtains the highest percentage of total marks, and who, during the same year, has won a place on the College (Canadian) Rugby team and on one other team sport. The trophy will be awarded only once to any individual.

The T. Fred Ward Swimming Trophy. A silver challenge cup donated by Mr. T. F. Ward, Secretary of the College, to be held for one year by the student winning the greatest number of points at the annual men's swimming meet.

The Lochhead Memorial Prize. In memory of her late husband, William Lochhead, B.A., M.Sc., the first Professor of Biology in Macdonald College, Mrs. Lochhead has established by an endowment of $400.00, a prize to be awarded to the student, majoring in Entomology, who takes the highest standing in the fourth year, the prize, in value equal to the proceeds of the endowment for one year, to be in books selected by the winner with the approval of the Head of the Department of Entomology.

The Dr. John L. Todd Gymnastic Medals for Women. See page 3113.

The Janet Morison Robb Bursary for Women. See page 3112.

NOTE:—No prize will be awarded to any student in any of the classes whose percentage of marks is below seventy, unless by special action of the Faculty.

POSTGRADUATE SCHOLARSHIPS

Walter M. Stewart Scholarship. Two scholarships of $500.00 each are offered postgraduate students at Macdonald College. One may be held by a postgraduate student whose undergraduate work was taken at the Institut Agricole d'Oka, one by a student from Ste. Anne de la Pocatiere. Application for these scholarships must be made to the Directors of the two colleges mentioned.

B.Sc. (H.Ec.) Course

His Honour the Lieutenant-Governor of the Province of Quebec donates two medals:

(1) *A silver medal,* to be awarded to the student who ranks highest in the third year of the B.Sc. (H.Ec.) Course.

(2) *A bronze medal,* to be awarded to the student who ranks highest in the second year of the B.Sc. (H.Ec. Course.

The Montreal Housewives' League gives a prize for the best results secured in the conservation of food, as demonstrated in home methods of canning fruits and vegetables. The prize is open to the graduating class in the B.Sc. (H.Ec.) Course.

The Frederica Campbell Macfarlane Scholarship. A scholarship has been donated by the Quebec Women's Institutes in memory of the late Frederica Campbell Macfarlane, graduate in Institution Administration, 1912, Superintendent of Quebec Women's Institute from 1913 to 1919. This scholarship is of the value of $50.00, is open only to students from a rural district of the Province of Quebec, and is awarded on the results of the final examinations in any one of the first three years of the B.Sc. (H.Ec.) Course.

I.O.D.E. Bursary. The Imperial Order Daughters of the Empire offers a bursary of $200.00 to a student, preferably from a rural area of Quebec, who has successfully completed the second year of the B.Sc. (H.Ec.) course. The bursary is payable in two equal instalments at the beginning of the third and fourth years of the course. Application must be made to the Registrar before August 15th, and must be accompanied by a letter from two responsible persons, including the Bank Manager if possible.

UNIVERSITY SCHOLARSHIPS

In addition to the foregoing, Degree students at Macdonald College are eligible to apply for the following University scholarships. Particulars will be found in the announcement of Scholarships, Bursaries, Prizes, Medals and Loan Funds, obtainable from:—The Registrar, McGill University, Montreal, Que.

Ottawa Valley Bursaries
The Isabella C. MacRae Scholarships.
B'nai B'rith Bursaries.
Leonard Foundation Scholarships.
The Christie-Storer Chapter Scholarship.
Khaki University and Y.M.C.A. Memorial Scholarship Fund.
Frederick Southam Ker Bursary.
Morris W. Wilson Memorial Scholarships.

Homemaker Course

His Excellency the Governor-General of Canada donates a bronze medal to be awarded to the Homemaker student who ranks highest in General Proficiency.

The Montreal Local Council of Women donates a prize in books to the value of $10.00 to be awarded to the student or students of the Homemaker Course showing outstanding ability in practical subjects.

The Dr. John L. Todd Gymnastic Medals for Women. See page 3113.

The Janet Morison Robb Bursary for Women. See page 3112.

SCHOOL FOR TEACHERS

Prizes and Medals

His Excellency the Governor-General of Canada gives a bronze medal to the student who takes the highest standing in the Art of Teaching, whether in the Elementary Class, the Kindergarten Class, or the Intermediate Class.

His Honour the Lieutenant-Governor of the Province of Quebec gives annually a silver medal and a bronze medal. These medals are awarded to the students who take the highest standing in mathematics in the Intermediate and Elementary Classes respectively.

The Prince of Wales Medal will be given to the teacher-in-training who takes the highest aggregate of marks in the Intermediate Class.

The Superintendent of Education gives annually a medal to the teacher-in-training who stands second in the Intermediate Class. He also gives a prize in books to the student who ranks highest in French.

The J. C. Wilson Prize was provided by bequest of $1,800.00, of the late J. C. Wilson. The proceeds of the bequest for one year will be given to the teacher-in-training who takes the highest aggregate of marks in the Elementary Class.

Le Comité de l'Alliance Francaise de Montréal offers a silver medal in the Intermediate Class, and a bronze medal in the Elementary Class, to the English-speaking student who in each class takes the highest marks in French.

The Bishop of Montreal gives annually two prizes in books, as follows: To the students in the Intermediate and Elementary Classes, who take the highest standing in Scripture.

The Association of Protestant Women Teachers of Montreal gives annually a prize to the student of the Intermediate Class who takes the highest standing in School Management and Principles and History of Education.

The Dr. John L. Todd Gymnastic Medals for Women. See page 3113.

The Janet Morison Robb Bursary for Women. See page 3112.

Milton L. Hersey, M.A.Sc., LL.D., a member of the Council of Education, Que., has established, by an endowment of $250.00, a prize in the

Intermediate Class, and also in the Elementary Class; to the teacher-in-training who takes the highest standing during the year in Nature Study and Elementary Agriculture.

The Honorable Jacob Nicol, K.C., M.L.C., D.C.L., a member of the Council of Education, Que., gives a prize in books to the teacher-in-training of the Elementary Class who takes the second highest aggregate of marks.

The Outremont Protestant Teachers' Association gives annually a prize to be awarded to the student in the Elementary Class who takes the highest standing in School Management and Principles of Education.

The Gardner Kneeland Memorial Prize, was established by an endowment of $200.00 by the late Professor A. W. Kneeland, M.A., B.C.L., in memory of his father. The proceeds of the endowment for one year is awarded to the student who ranks highest in English.

The Frances Willard Women's Christian Temperance Union, Westmount, Que., gives annually a prize of ten dollars to the student who takes the highest standing in the subject of Physiology and Hygiene.

A. Kirk Cameron, a member of the Council of Education, Que., gives annually a prize of ten dollars to the student who takes the highest standing in Primary Methods.

The Dr. S. P. Robins Memorial Prize, was established by an endowment of $500.00, by Miss Lilian B. Robins, B.A., former lecturer in Mathematics, School for Teachers, Macdonald College, in memory of her father, who was first Professor of Mathematics, 1857 and, later, Principal of McGill Normal School, Montreal, until 1907. The proceeds of the endowment for one year will be awarded to the student who obtains a diploma, and is the most deserving student from the point of view of personality, professional attainments, and home circumstances.

NOTE:—Prizes are awarded only to students who obtain diplomas in the specified class.

Sarah Emma Hill Scholarship

The Sarah Emma Hill Scholarship, endowed by the late Mrs. Sarah Emma Hill, of Stanstead, Que., of the present value of about $100.00, will be awarded each year to a student in the School for Teachers "where assistance is required,—this money to be used by the Trustees of Macdonald College according to their best judgment."

Candidates for this scholarship are requested to make written application to the Dean of the School for Teachers, on or before September 30th, giving full particulars of the grounds upon which their applications are based, and to provide letters supporting their claims from two responsible persons.

In making the award, consideration will be given to scholarship and professional ability.

Ella Bryson Scholarship

This scholarship was bequeathed by the late Miss Ella Bryson of Fort Coulonge, Que., to the Women's Institute of Fort Coulonge, the proceeds of which are to be used as a scholarship at Macdonald College for a student from the Fort Coulonge Protestant School taking a course in the School for Teachers. Candidates for this Scholarship are requested to make application to the Dean of the School for Teachers on or before September 30th each year, and must be supported by recommendation from the Women's Institute of Fort Coulonge.

I. O. D. E. Bursary

The Municipal Chapter of Montreal Imperial Order Daughters of the Empire awards annually a bursary of $350.00 in the School for Teachers. This bursary is open to all girls of the High Schools in the municipality of Montreal and vicinity, including Lachine, Longueuil and St. Lambert, and will be awarded by a committee of selection chosen by the Order. Application forms can be obtained from the Principals of the High Schools concerned, or from the Educational Secretary of the Municipal Chapter of Montreal Imperial Order Daughters of the Empire—Mrs. F. M. Stevens, 493 Argyle Avenue, Westmount, Que.

OPEN TO ALL WOMEN STUDENTS

The Janet Morison Robb Bursary for Women was established, by an Endowment of $2,000.00, by the late Honourable James A. Robb, formerly Member of Parliament for Chateauguay-Huntingdon and Minister of Finance, Canada, in memory of his deceased daughter, Janet Morison Robb, wife of Hugh Harvie Donald. The annual bursary will be the proceeds of the endowment for one year.

Preference will be given to women students resident in either of the counties of Chateauguay-Huntingdon, or Beauharnois, who are daughters of widowed mothers of limited or moderate means, or daughters of widowers in similar financial circumstances, or daughters of disabled Canadian soldiers who have seen active service.

Candidates for this bursary are requested to make written application, addressed to the Secretary, Macdonald College, Que., *on or before 15th April*, giving full particulars of the grounds upon which their applications are based, and to provide letters from two responsible persons in support of their claims.

Dr. John L. Todd Gymnastic Shield. Donated by Dr. Todd for annual intersection gymnastic competition.

Dr. John L. Todd Basketball Trophy. Donated by Dr. Todd for annual intersection basketball competition.

Dr. John L. Todd Gymnastic Medals. Four medals—gold, silver, bronze, and nickel, donated annually by Dr. Todd for annual individual gymnastic competition.

1913-14 Baseball Cup. Donated by the Girls' Athletic Association, 1913-14, for annual intersection baseball competition.

Lady Constance Stewart-Richardson Swimming Cups for General Excellence and General Proficiency in Swimming and Diving. Donated by Lady Constance Stewart-Richardson for annual individual competition.

The Badminton Challenge Cup. Donated by the Girls' Athletic Association, 1928-29, for annual individual competition.

NOTE:—Only students taking a full year's course at the College are eligible to compete for the swimming cups, gymnastic medals and the badminton cup.

THE MACDONALD COLLEGE LIBRARY

The library and reading room are centrally located in the Main Building, occupying the ground floor of an annex leading off the main hall. Seventy-six readers can be accommodated in the reading room; and in a series of alcoves there are reference works and text-books on the work of the various departments.

The present stack-room has accommodation for about 25,000 volumes, and the choice of books has been directed towards bringing together the best of modern literature on subjects of the curriculum of the College.

The Walter M. Stewart Collection includes biography, history, travel, science, etc. This collection has been purchased with sums of money given by Walter M. Stewart, of Montreal.

EXTENSION SERVICE IN THE FACULTY OF AGRICULTURE

AGRICULTURE

DEPARTMENTAL SERVICES.—The services of the various departments of Macdonald College are always available for the advancement of the agricultural and home interests of the Province of Quebec. Personal interviews at the College and correspondence are invited.

JUDGES, SPEAKERS, EDUCATIONAL EXHIBITS.— Macdonald College upon request, and when convenient arrangements can be made, will supply judges for exhibitions and speakers for meetings held under the auspices of agricultural societies, farmers' clubs, women's institutes, livestock, poultry and dairy associations, seed growing and horticultural societies and kindred organizations and, in some cases, will provide educational exhibits.

VISITORS TO THE COLLEGE FROM THE FARMING COMMUNITY OF QUEBEC are always welcome, from 9 a.m. until 5 p.m., excepting on Sundays, Saturday afternoons, and public holidays.

FARMERS' EXCURSIONS TO THE COLLEGE.—Excursions organized by agricultural societies, farmers' clubs, and similar bodies, are cordially invited to the College in the month of June to inspect the work in progress in the various departments, the main farm, field crops, orchards and vegetable gardens, the greenhouses, the poultry plant, the dairy, and the scientific laboratories, to see for themselves the experimental and demonstration work and to ask questions in regard thereto. An opportunity is also given to inspect the student residences, the dining-room, the gymnasium, and other parts of the building, and thereby to understand to some extent the conditions of student life at the College.

When arrangements are made in time, organized excursions will be provided at a nominal charge with a luncheon of sandwiches, bread and butter, cheese, and hot tea; or, if preferred, excursionists may bring their own lunch baskets, the College providing tea. In order to provide for the convenience and comfort of such excursionists, advice should be sent in advance as to the hours of arrival at and departure from the College, and as to the number of excursionists to be expected. Address:—The Dean of the Faculty of Agriculture, Macdonald College, Que.

SPECIMENS FOR EXAMINATION.—Please note that plants, seeds, insects, and similar specimens sent to the College for identification or examination, should be prepaid if sent by express, and attached thereto should be a tag containing the name and the address of the sender, and full particulars of the material sent. Parcels sent by parcel post should also be similarly tagged, in order that the material may be submitted to the department suited to make the examination.

HOUSEHOLD SCIENCE

Questions relating to household subjects will be answered.

Address:—The Director of the School of Household Science, Macdonald College, Que.

Subject to change

Approximate Costs of Courses at Macdonald College, Applying to Sons and Daughters of Farmers of the Province of Quebec, of the Ottawa Valley in Ontario, and of the Maritime Provinces

COURSES	Consolidated fee	Student activities		Board at $9.00 per week	Textbooks, material, etc. (estimated)	Total per session (a) (estimated)		Less (b)	Less (c)	Less (d)	NET COST PER SESSION (estimated)	
		Men	Women			Men	Women				Men	Women
Diploma	$21.00	$9.55	$10.00	19 3/7weeks $175.00	$17.00	$222.55	$223.00	$45.00		$10.00	$167.55	$178.00
B.Sc. (Agr.) (1st and 2nd years)	$34.00	$15.00	$10.00	28 weeks $252.00	$30.00	$331.00	$326.00	$63.00		$15.00	$253.00	$263.00
3rd and 4th years	$84.00	$15.00	$10.00	28 weeks $252.00	$30.00	$381.00	$376.00	$63.00		$15.00	$303.00	$313.00
B.Sc. (H.Ec.)	$133.00		$10.00	28 weeks $252.00	$30.00		$425.00					$425.00
Homemaker	$33.00		$10.00	36 weeks $324.00	$30.00		$397.00					$397.00
School for Teachers Elementary class	$24.00	$11.35	$10.00	37 weeks $333.00	$22.00	$390.35	$389.00		$100.00	$15.00	$275.35	$289.00
Intermediate class	$24.00	$11.35	$10.00	37 weeks $333.00	$25.00	$393.35	$392.00			$15.00	$378.35	$392.00
Kindergarten class	$24.00		$10.00	37 weeks $333.00	$15.00		$382.00					$382.00

(a) *Purely personal expenditures*, including laundry, uniforms of women students, gymnasium costumes, etc., *are not included* in these figures.
(b) Provincial Government Grant of $9.00 per month of attendance to students of the Province of Quebec. In the case of Graduate students, only bona fide students, who give full time to their studies are eligible for the grant.
(c) Bursaries payable to Elementary Class students by the Department of Education, subject to certain departmental regulations.
(d) Special bursary for sons of farmers of the Province of Quebec, of the Ottawa Valley in Ontario, and the Maritime Provinces, awarded to qualified candidates on application supported by references from the local agronome, agricultural representative or similar official.

Subject to change

Approximate Costs of Courses at Macdonald College, Applying to Canadian Students who are not Sons or Daughters of Farmers

COURSES	Consolidated fee	Student activities		Board at $9.00 per week	Textbooks, material, etc. (estimated)	Total per session (a) (estimated)		Less (b)	Less (c)	NET COST PER SESSION (estimated)	
		Men	Women			Men	Women			Men	Women
Diploma	$71.00	$ 9.55	$10.00	19 3/7weeks $175.00	$17.00	$272.55	$273.00	$45.00		$227.55	$228.00
B.Sc. (Agr.)	$84.00	$15.00	$10.00	28 weeks $252.00	$30.00	$381.00	$376.00	$63.00		$318.00	$313.00
B.Sc. (H.Ec.)	$133.00		$10.00	28 weeks $252.00	$30.00		$425.00				$425.00
Homemaker	$233.00		$10.00	36 weeks $324.00	$30.00		$597.00				$597.00
School for Teachers: Elementary class	$24.00	$11.35	$10.00	37 weeks $333.00	$22.00	$390.35	$389.00		$100.00	$290.35	$289.00
Intermediate class	$24.00	$11.35	$10.00	37 weeks $333.00	$25.00	$393.35	$392.00			$393.35	$392.00
Kindergarten class	$24.00		$10.00	37 weeks $333.00	$15.00		$382.00				$382.00

(a) *Purely personal expenditures,* including laundry, uniforms of women students, gymnasium costumes, etc., *are not included* in these figures.

(b) Provincial Government Grant of $9.00 per month of attendance to students of the Province of Quebec. In the case of Graduate students, only bona fide students, who give full time to their studies are eligible for the grant.

(c) Bursaries payable to Elementary Class students by the Department of Education, subject to certain departmental regulations.

THE UNIVERSITY LIBRARY

RICHARD PENNINGTON, B.A., Lib. Dip. (London), F.L.A.
UNIVERSITY LIBRARIAN

The University Library, which is under the general management of a Committee of Senate, includes the Redpath Library and various Faculty and Departmental libraries in other buildings.

The several libraries of the University now contain over 500,000 volumes and 50,000 pamphlets and receive over 3,000 periodicals, Government publications and transactions of various literary and scientific societies.

Among the special collections possessed by the Redpath Library may be mentioned the Mendelssohn Choir Memorial Collection of works on Music, the T. D. King Collection of Shakesperiana, the Redpath Historical Collection, the Friedman Collection of Kipling, and the Collection of Canadiana.

The Blackader Library of Architecture has been established in honour of Captain Gordon Home Blackader, B.Arch. (McGill). The Wood Library of Ornithology was presented by Colonel Casey A. Wood, M.D., LL.D., as a special research collection and reference library. The Blacker Library of Zoology, presented by Robert Roe Blacker and Nellie Canfield Blacker, is a comprehensive reference library on this special subject. It is supplemented by the Lyman Collection of books on Entomology. The Dinah Lauterman Library of Art was established in 1946. The Faculty of Medicine (including the Bibliotheca Osleriana), and the Royal Victoria College maintain libraries in their respective buildings; and there are Departmental Libraries in Engineering, Chemistry, Physics and Botany. The Libraries of the Faculty of Law and the School of Commerce were installed, in 1943, in Purvis Hall. Integral parts of the Redpath Library are temporarily housed at Dawson College and in the David Morrice Hall of the Presbyterian College.

The Travelling Libraries, now at Macdonald College, provide extra-mural library service at a moderate fee.

With the Library is affiliated the University Book Club, which supplies its members with recent publications and makes an annual contribution of books to the Library.

The Library maintains a museum, open to the public, with a permanent exhibition illustrating the development of the Book Arts.

UNIVERSITY MUSEUMS

1. Peter Redpath Museum

The Peter Redpath Museum, a dignified building in the Neo-Greek style situated between the University Library and the Arts Building, was erected by the donor whose name it bears and was handed over to the University in 1882, the architects being Hutchison and Steele. It is the only building in the University solely designed for museum purposes. It contains, on three floors, a great variety of museum material, the most important being the paleontological, mineralogical, and zoological collections, and a condensed exhibit of economic geology. The collections of the Lyman Entomological Society are also housed here. *Curator*, T. H. Clark; *Assistant Curator*, Alice Johannsen Turnham; *Associate Curator*, J. D. Cleghorn (on military service).

2. McCord National Museum

The McCord National Museum is housed in a building adjacent to the campus, on the north side of Sherbrooke Street. Eleven rooms, the hall and the passages are occupied by the collections, which consist of articles illustrating the history and social life of Canada, the bulk of which were presented to the University in 1919 by David Ross McCord, Honorary Curator until his death. Subject to certain life interests, he bequeathed the major part of his estate to the University "as an Endowment Fund for the maintenance and development of the McCord National Museum." The museum is temporarily closed. *Acting Curator*, T. H. Clark; *Assistant Curator*, Alice Johannsen Turnham.

3. Library Museum

The Library maintains a permanent display of the History of the Book. This is situated in the Gallery of the Reading Room, and is open to the public between 9 a.m. and 5 p.m. It shows the development of the book from inscribed clay tablets, through the papyrus and parchment roll and the mediæval manuscript, to the commercial printing of today. There are also displays showing the arts of bookbinding and of book illustration. In the Faculty Study Room may be seen on request the Cleveland Morgan Collection of Assyrian and Babylonian Seals, and examples from the Library's collection of charters and historical manuscripts. *Curator*, The University Librarian.

4. Ethnological Museum

This at present occupies the ground floor court of the Medical Building where it temporarily shares its quarters with the Arctic Institute of North America. The collection is arranged geographically to illustrate the native cultures of North America, Africa and the Pacific Islands.

There is in addition the Garstang Loan Collection illustrating Egyptian culture through four millenia. *Acting Curator*, T. H. Clark; *Assistant Curator*, Alice Johannsen Turnham.

5. In addition to the above there are other collections and exhibits of a specialized nature, ordinarily open only to students but to which access may be gained by application to the Curator concerned. These include the Anatomical, Medical and Pathological Museums, the Museum of Hygiene, the Rutherford Collection of Experimental Physics, the Botanical, Zoological, and Architectural collections. At Macdonald College there is a teaching collection containing an herbarium, a collection of insects, and some other exhibits related to Canadian agriculture.

MILITARY TRAINING

CANADIAN OFFICERS TRAINING CORPS
McGILL UNIVERSITY CONTINGENT

Honorary Colonel.....Col. T. S. Morrisey, D.S.O., E.D.

Honorary Lt.-Col......Lt.-Col. J. M. Morris, M.C., V.D.

Commanding Officer....Lt.-Col. R. H. E. Walker, D.S.O., E.D.

Second-in-Command....Major C. M. McDougall, D.S.O.

Resident Staff Officer, McGill University....Major J. V. Cook

1. Object

The object of the training is to qualify selected undergraduates for a commission in the Canadian Army, Active or Reserve, in one of the various corps, depending on educational requirements.

2. Eligibility

All students may apply subject to the following regulations:

(a) Applicants must be British subjects.

(b) With the exception of Veterans, students must reach the age of eighteen by April first of the year they apply and must not exceed twenty-two years of age at date of registration at University. Full details of age limits for Veterans may be obtained from Resident Staff Officer.

(c) Students must meet physical requirements of the Corps for which they apply.

(d) The University course followed must lead to a recognized degree. Students following a three year course are eligible only if they apply in their first year at University. Students following a four year course are eligible providing they apply in their first or second year and students of a five year course may apply in first, second or third year.

(e) British subjects who are not residents of Canada may apply but preference will be given to those who intend to remain in Canada after graduation.

3. Training

(a) First Winter COTC

Application, selection and enrolment. Training consists only of introductory talks designed to assist students during the balance of the course.

(b) First Summer COTC

Sixteen weeks training at the Royal School of the Corps selected by the student, except for students of Medicine and Dentistry for whom a shorter course is provided.

(c) Second Winter COTC

Defence Economics I	10 hours	Professor J. B. Rollit
Military Geography	10 hours	Professor J. R. McKay
Military Science I	20 hours	
	40 hours	

(d) Second Summer COTC

Sixteen weeks advanced training at the Royal School of the Corps chosen (except Medicine and Dentistry as above).

(e) Third Winter COTC

Defense Economics II	10 hours
Military History	10 hours
Military Science II	20 hours
	40 hours

(f) Third Summer COTC (Optional)

Sixteen weeks advanced training

4. Qualification

Students who complete two summers practical training as well as the winter courses will be qualified for the rank of Lieutenant (Reserve Force).

Students who complete the above plus one additional summer of practical training will qualify as Captains (Reserve Force) or Lieutenants (Active Force).

On graduation students will be eligible for a commission.

5. Status and Pay

Students who are accepted are granted the status of Second Lieutenants and are known as Officer Cadets.

During the summer training periods, students will receive pay at the rate of $135.00 per month, plus lodging, board, medical care and transportation. For the second and third winter, students will receive ten day's pay, i.e. $45.00.

6. Application for Enrolment

Students taking lectures in Montreal who desire to enrol should apply to the Resident Staff Officer, Sir Arthur Currie Gymnasium-Armoury. Dawson College students should apply at the COTC Office, Dawson Hall. Application should be made as soon after University registration as possible.

THE McGILL UNIVERSITY NAVAL TRAINING DIVISION

Commanding Officer.....Lieut. Cdr. (S) D. C. Bain, R.C.N. (R)

University Naval Training Divisions (U.N.T.D.) were established in Canadian universities during the War to provide Naval training for students prior to entry into active service in the Navy. These divisions are being continued in peacetime to provide a Naval Officers' Training program through which students may become commissioned officers in the Royal Canadian Navy (Reserve). Opportunity is also provided in certain branches for entry into the Royal Canadian Navy (Permanent Force) as commissioned officers who will follow the Navy as a career.

A student entering the U.N.T.D. is attested as Ordinary Seaman unless his academic field is allied to a branch of the Navy in which he might become commissioned. In such a case, he is entered in the lowest rate in the appropriate branch; for example, a student in electrical engineering is entered as Electrician's Mate, 2nd class, and a student in commerce as Probationary Writer.

All members of the U.N.T.D. appear before an Officers' Selection Board before the close of the second academic year. Unsuccessful candidates may present themselves again the following year. Those who are successful in passing the Board are designated as Officer Candidates and receive special training. U.N.T.D. members are not encouraged to qualify for higher rates such as Leading Seaman and Petty Officer, but are encouraged to strive to become Officer Candidates. An attractive rate of pay during summer training has been approved: Officer Candidates receive $135 per month while in active training.

The Naval Training program calls for sixty hours' instruction, per session, for four years. This program is of a progressive nature. All members of U.N.T.D. take the same training during the academic year, irrespective of the branch in which they may be commissioned ultimately. Two weeks' training afloat is required each Spring or Summer after the close of the academic year or before the opening of University in the Fall. The training takes the form of a cruise in a Canadian Naval vessel from an East or West Coast port. In 1947, Alaska, U.S.A., Bermuda and the British Isles were among the places visited by the ships undertaking training cruises. In addition to the required two weeks' training afloat, U.N.T.D. members may also volunteer for paid service ashore or afloat during the remainder of the summer vacation. Officer Candidates are required to spend one full summer in training in order to qualify for commissions in the R.C.N.(R) on graduation.

For further information apply to:

Commanding Officer, McGill U.N.T.D.,
Room 335,
Dawson Hall, Montreal.

or,

U.N.T.D. Office,
Dawson Hall, Dawson College.

Property of the Library

ACADEMIC DRESS

Undergraduates are entitled to wear a plain stuff gown, not longer than half way between the knee and the ankle, with round sleeves cut above elbow.

Bachelor of Arts—Black stuff gown, falling down below knee with full sleeve cut to elbow and terminating in a point (similar to that of the Cambridge B.A.); hood, black silk, lined with pale blue silk and edged with white fur.

Bachelor of Architecture—The same gown as Bachelors of Arts; hood, black silk, lined with white silk and edged with white fur.

Bachelor of Civil Law—The same gown as Bachelors of Arts; hood, black silk, lined with French grey silk and edged with white fur.

Bachelor of Commerce—The same gown as Bachelors of Arts; hood, black silk, lined with purple silk and edged with white fur.

Bachelor of Engineering—The same gown as Bachelors of Arts; hood, black silk, lined with scarlet silk and edged with white fur.

Bachelor of Household Science—The same gown as Bachelors of Arts; hood, black silk, lined with jade green silk and edged with white fur.

Bachelor of Library Science—The same gown as Bachelors of Arts; hood, black silk, lined with orange silk and edged with white fur.

Bachelor of Music—The same gown as Bachelors of Arts; hood, black silk, lined with pale mauve silk and edged with white fur.

Bachelor of Nursing—The same gown as Bachelors of Arts; hood, black silk, lined with dark blue silk and edged with white fur.

Bachelor of Physical Education—The same gown as Bachelors of Arts; hood, black silk, lined with claret coloured silk and edged with white fur.

Bachelor of Science—The same gown as Bachelors of Arts; hood, black silk, lined with yellow silk and edged with white fur.

Bachelor of Science in Agriculture—The same gown as Bachelors of Arts; hood, black silk, lined with dark green silk and edged with white fur.

Bachelor of Social Work—The same gown as Bachelors of Arts; hood, black silk lined with fuchsia silk and edged with white fur.

Master of Arts—Black gown of stuff or silk, falling below knee, with long sleeves with semi-circular cut at the bottom (similar to that of the Cambridge M.A.); hood, black silk, lined with pale blue silk.

Master of Architecture—The same gown as Masters of Arts; hood, black silk, lined with white silk.

Master of Civil Law—The same gown as Masters of Arts; hood, black silk, lined with French grey silk.

Master of Commerce—The same gown as Masters of Arts; hood, black silk, lined with purple silk.

Master of Engineering—The same gown as Masters of Arts; hood, black silk, lined with scarlet silk.

Master of Science—The same gown as Masters of Arts; hood, black silk, lined with yellow silk.

Master of Social Work—The same gown as Masters of Arts; hood, black silk, lined with fuchsia silk.

Doctor of Civil Law—The same gown as Masters of Arts; hood, scarlet cloth, lined with French grey silk.

Doctor of Dental Surgery—The same gown as Masters of Arts; hood, scarlet cloth, lined with pink silk.

Doctor of Laws—The same gown as Masters of Arts; hood, scarlet cloth, lined with white silk.

Doctor of Literature—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale blue silk.

Doctor of Medicine—The same gown as Masters of Arts; hood, scarlet cloth, lined with dark blue silk.

Doctor of Music—The same gown as Masters of Arts; hood, scarlet cloth, lined with mauve silk.

Doctor of Philosophy—The same gown as Masters of Arts; hood, scarlet cloth, lined with pale green silk.

Doctor of Science—The same gown as Masters of Arts; hood, scarlet cloth, lined with yellow silk.

Doctors of Laws, Doctors of Civil Law, Doctors of Literature, Doctors of Science, Doctors of Philosophy and Doctors of Music are entitled to wear for full dress a robe of scarlet cloth (similar in pattern to that of the Cambridge LL.D.), faced with silk of the same colour as the lining of their respective hoods.

All hoods are in pattern similar to that of the Masters of Arts of Cambridge University.

Undergraduates and graduates wear the ordinary black trencher with black tassel, but Doctors of Law, Doctors of Civil Law, Doctors of Literature, Doctors of Science, Doctors of Philosophy and Doctors of Music wear for full dress a black velvet hat with gold cord, similar to that worn by Doctors of Laws of Cambridge University.

Samples of the colours of the linings of all hoods are kept for inspection in the office of the Registrar.

McGILL UNIVERSITY

MONTREAL

DIRECTORY OF STUDENTS

1946 - 1947

DIRECTORY OF STUDENTS

TELEPHONE NUMBERS

Athletics Manager
Sir Arthur Currie Memorial Gymnasium----------PL. 4488
Beatty Hall, 3506 University Street----------LA. 5265
Canadian Officers Training Corps.
Sir Arthur Currie Memorial Armoury----------BE. 3304
Conservatorium of Music, 677 Sherbrooke Street, West----------MA. 2080
(Secretary's Office)----------MA. 2606
Dept. of Physical Education (Men)
Sir Arthur Currie Memorial Gymnasium----------PL. 1881
Dept. of Physical Education (Women)
555 Sherbrooke Street, West----------MA. 9176
Diocesan College, 3474 University Street----------MA. 4902
Divinity Hall, 3510 University Street----------MA. 2646
Douglas Hall, 3851 University Street----------BE. 2886
Faculty Club, 3450 McTavish Street----------PL. 8789
Football Tickets,
Sir Arthur Currie Memorial Gymnasium----------PL. 4489
Graduates' Society, 3466 University Street----------MA. 2664
International Labour Office, 3480 University Street----------PL. 2507
I.V.C.F. Student House, 3445 Peel Street----------HA. 9462
McGill Daily, 690 Sherbrooke Street, West----------LA. 2244
McGill Daily, Editor-in-Chief, A. Knight ----------LA. 2244
(After 10 P.M. and on Sundays and Holidays)----------LA. 8366
McGill University----------MA. 9181
McGill Union, 690 Sherbrooke Street, West----------LA. 2244
President, D. Townsend----------LA. 2244
(After 10 P.M. and on Sundays and Holidays)----------LA. 2247
McLennan Hall (Women Students' Residence) 3480 Ontario Ave.----------PL. 0044
Montreal General Hospital, Dorchester Street, East----------PL. 7751
Morgan House, (Student Veterans' Residence) 3619 University St.----------MA. 4458
Players' Club Office, 690 Sherbrooke Street, West----------LA. 2244
Purvis Hall, 1020 Pine Avenue West.
Law Faculty----------HA. 0719
Commerce Faculty----------HA. 0998
Library----------HA. 5952
Rink and Tennis Courts, McTavish Street----------MA. 2705
Royal Victoria College, 555 Sherbrooke Street, West----------MA. 9176
Royal Victoria Hospital, Pine Avenue, West----------PL. 1251
School for Graduate Nurses, 3466 University Street----------MA. 9181
School of Social Work, 3600 University Street ----------MA 2977
Strathcona Hall (Women Students' Residence)
772 Sherbrooke Street, West----------HA. 6268
Student Christian Movement, 3574 University Street----------PL. 1156
Students' Employment Bureau, 690 Sherbrooke Street, West----------LA. 2244
Students' Executive Council, 690 Sherbrooke Street, West----------LA. 2244
President, D. A. Ross ----------LA. 2244
(After 10 P.M. and on Sundays and Holidays)----------LA. 2247
University Co-operative Residence, 3609 University Street----------LA. 6307
University Medical Officer,
Dr. C. S. Barker (Residence) ----------WA. 4086
Macdonald College,
Men's Residence----------Ste.Anne 788
Women's Residence----------Ste.Anne 806 or 810

* * * * * * *

MEN'S FRATERNITIES

Alpha Delta Phi, 3478 McTavish Street.....PL. 7412

Delta Kappa Epsilon, 3653 University Street.....PL. 2073

Delta Sigma Phi, 3592 University Street.....PL. 2435

Delta Upsilon, 3434 McTavish Street.....PL. 6773

Kappa Rho Tau, 1210 Pine Avenue West.....HA. 0098

Nu Sigma Nu, 545 Pine Avenue West.....MA. 1545

Phi Delta Theta, 3581 University Street.....MA. 3842

Phi Kappa Pi, 3647 University Street.....MA. 2806

Psi Upsilon, 3429 Peel Street.....PL. 7385

Sigma Chi, 3437 Peel Street.....PL. 1674

Kappa Alpha, 3605 University Street.....LA. 0643

Zeta Beta Tau,

Zeta Psi, 3637 University Street..... BE. 0758

WOMEN'S FRATERNITIES

Alpha Gamma Delta, 646 Sherbrooke Street, West.....PL. 5601

Alpha Omicron Pi, 3560 University Street.....LA. 8318

Delta Gamma, 900 Sherbrooke Street, West, (Apt.14).....PL. 6943

Delta Phi Epsilon, 529 Prince Arthur Street, W.....AT. 3640

Gamma Phi Beta, 3601 University Street.....MA. 8740

Kappa Alpha Theta, 3570 University Street.....MA. 4068

Kappa Kappa Gamma, 768 Sherbrooke Street.....HA. 7911

Sigma Delta Tau, 5225 Notre Dame de Grace Avenue.....DE. 7102

DIRECTORY OF STUDENTS

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President:	D. Alec Ross
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	Miss P. Hunter
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MACDONALD COLLEGE
(McGill University)

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McGILL UNIVERSITY

DIRECTORY OF STUDENTS

SESSION 1946 - 1947

Where two addresses are given, the second is the home address.

NAME	FACULTY AND YEAR	ADDRESS	TEL. NO.
ABBEY, Joan B.	B.Eng.1	Dawson College	
		3585 Addington Ave.,Montreal	EL 5122
ABBEY, Marian N.	Social Work	5010 Sherbrooke St.W.Apt.24,Mtl.	WA 4455
ABBEY, Sheila T.	B.Sc.4	3585 Addington Ave.	EL 5122
ABBEY, Stanley H.	B.A.1	Dawson College	
		3585 Addington Ave.,Montreal	EL 5122
ABBIS, Choikex	Law 2		
		Edmundston, N.B.	
ABBOTT, Elisabeth D.	B.A.2	79 Arlington Ave.,Westmount	WA 2054
ABEL, John K.	B.Eng.4	3506 University St., Montreal	LA 5265
		294 Overdale St., Winnipeg.	
ABEL, Robert B.	Med.3	3617 Lorne Crescent	LA 8013
		5516 Dalhousie Rd.,Vancouver,B.C.	
ABER, William	B.Eng.2	3573 Decarie Blvd.,Montreal	DE 5695
ABLACK, John L.	Dent.4	3550 Shuter St., Montreal	PL 0675
		Princess Town, Trinidad, B.W.I.	
ABOUD, Mary	B.A.2	4940 Coronet Ave.,Apt.10,Montreal	EX 2003
		590 Sixth Ave.,Grand'Mere,Que.	
ABRAHAM, Fraser J.	B.Sc.3	4018 Royal Ave.,N.D.G.,Montreal	DE 8114
ABRAMOVICH, Manuel	B.Com.3	906 Wilder Ave.,Outremont	AT 5934
ABRAMOVICH, Vivian	B.A.1	906 Wilder Ave.,Outremont	AT 5934
ABRAMSON, Ruth	B.Sc.4	5216 Esplanade, Apt.3,Montreal	DO 5838
ABUGOV, Bernard	B.Eng.2	829 Church Ave.,Verdun,Que.	FI 6007
ABUGOV, Jack	B.Eng.2	3507 University St.,Montreal	
		28 Seventh St.W.,Cornwall,Ont.	
ABUGOV, Louis	B.Com.1	Dawson College	
		5811 Plantagenet Ave.,Montreal.	AT 7151
ACHESON, Fraser W.	B.Sc.1	Dawson College.	
		5272 - 6th Ave.,Rosemount,P.Q.	CH 2498
ADAM, John E.	B.A.3	80 Prince Arthur St.E.,Montreal.	MA 8008
ADAMS, Annie M.	Phys.Ed.4	1480 McGill College Ave.,Apt.4.	
		428 Scott Rd.,R.R.No.7,New Westminster,B.C.	
ADAMS, Archie L.	B.Sc.1	Dawson College	
		Gatineau, Que.	
ADAMS, Charlotte E.	Grad.Sch.		
		12 Brighton Place,Fair Lawn,New Jersey,USA.	
ADAMS, Dorothy L.	Grad.Nurses	4922 Sherbrooke St.W.,Montreal	EL 9890
		533 S.Marks St.,Fort William,Ont.	
ADAMS, Douglas G.	B.A.2	3619 University St.,Montreal.	MA 4458
		1 Elora Rd., Toronto, Ont.	
ADAMS, Glenn N.	B.Sc.2	5441 Grovehill Place,Montreal 28.	EL 3461
ADAMS, James R.	B.A.2	4333 Westmount Ave.,Westmount,P.Q.	EL 5252
ADAMS, John I.	B.Eng.1	Dawson College.	
		Rosemere, P.Q.	
ADAMS, Samuel T.	Dip.Med.	602 Argyle Ave.,Westmount.	
ADAMS, William E.	B.A.2		
		Mont Vernon,New Hampshire,U.S.A.	
ADAMSON, Elizabeth A.	B.A.1	5345 Victoria Ave.,Apt.2,Mtl.	EX 2112
ADAMSON, William D.	B.Eng.2	6190 Terrebonne Ave.,Montreal	DE 1457
ADELSON, Eudice	B.Sc.(H.Ec.)2	Macdonald College	Ste. A. 812
		738 Querbes Ave., Outremont	DO 7617
ADELSTEIN, Peter	Grad.Sch.	4210 Marcil Ave., Montreal	DE 5657
ADELSTEIN, Sara	B.Sc.1	4239 Esplanade Ave.,Montreal	BE 1408
ADILMAN, Lester R.	B.A.1	5156 N.D.G.Ave.,Montreal	DE 7884
AFFLECK, Raymond T.	Arch.5	2106 Claremont Ave., Montreal	EL 2337
AGAPITOS, Emmanuel P.	B.Sc.4	153 Milton St., Montreal	LA 9643
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